Project Name:	Soils of the Lo	ower Macqua	arie Vall	ey, New South Wales	
Project Code:	Macquarie	Site ID:	420	Observation ID:	1
Agency Name:	CSIRO Divisio	n of Soils (A	CT)		

Site Informatio Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.: Geology ExposureType:	n	Locality: Elevation: Rainfall: Runoff: Drainage: Conf. Sub. is Pare	No Data No Data Slow Poorly drained nt. Mat.: No Dat	а		
Geol. Ref.:	No Data	Substrate Materia	I: No Dat	a		
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope:	Flat No Data %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data			
Surface Soil Co Erosion:	ondition (dry): Cracking					
Soil Classificat						
Australian Soil C N/A	lassification:	Маррі	ng Unit:	OLD ALLUVIUM BACKPLAIN		
Confidence level	ASC Confidence: Ug5 ASC Confidence: Great Soil Group: N/A Confidence level not specified Site Disturbance: Cultivation. Rainfed					
Vegetation: Surface Coarse						
Profile Morpho						
A1 0 - 0.2 m	Brown (7.5YR4/3-Moist); ; blocky; Rough-ped fabric; Common (1-5 per 100mm2 (Raupach); Common, very	Common (1-5 per 100 2) Fine (1-2mm) macro	mm2) Very fine (0. opores, Moist; Firm	075-1mm) macropores, consistence; Field pH 7		
B21 0.2 - 0.6	Smooth-ped fabric; Comm 5 per 100mm2) Fine (1-2m	on (1-5 per 100mm2) nm) macropores, Mois Few (2 - 10 %), Calca	Very fine (0.075-1n t; Very firm consiste areous, Medium (2-	nm) macropores, Common (1- ence; Many cutans, >50% of -6 mm), Nodules; Field pH 9		
B22 0.65 - 1.	blocky; Smooth-ped fabric Common (1-5 per 100mm/ cutans, >50% of ped faces	; Common (1-5 per 10 2) Fine (1-2mm) macro s or walls coated; Com 10 - 20 %), Calcareou	0mm2) Very fine (0 opores, Moist; Very imon (10 - 20 %), C s, Medium (2 -6 mn	1.075-1mm) macropores, firm consistence; Many calcareous, Medium (2 -6 n), Soft segregations; Field pH		
B3 1.1 - 1.3	Polyhedral; Smooth-ped fa Wet; Very firm consistence	abric; Common (1-5 pe e; Many cutans, >50% m (2 -6 mm), Nodules	er 100mm2) Very fir of ped faces or wa ; Common (10 - 20	ne (0.075-1mm) macropores, Ils coated; Common (10 - %), Calcareous, Medium (2 -6		
<u>Morphological</u> A1	Notes Similar to 419; sodic grey-b describe about 20cm wat					

Observation Notes Buddah Soil Profile Class

Site Notes

Project Name:	Soils of the Lov	ver Macqua	rie Valley, New	South Wales	
Project Code: Agency Name:	Macquarie CSIRO Division	Site ID: of Soils (A	-	Observation ID:	1

Laboratory Test Results:

Depth	рН		Ex Ca	changeabl Mg	e Cations K	Exchangeable Na Acidity	CEC	ECEC	ESP
m 0.1 - 0.15	8.5A	dS/m	13.1E	0.0	0.6	Cmol (+)/kg 2		24.5D	%
0.1 - 0.15 0.3 - 0.35 0.7 - 0.75	8.5A 9.2A 8A	0.277A 0.4A 2.48A	10.1E	8.8 9.7	0.6 0.4	6.8		24.5D 27D	
1.3 - 1.35	8.1A	2.18A	10.12	0.1	0.7	0.0		2,0	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	article	Size A	nalysi	5
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0.1 - 0.15 0.3 - 0.35							1.46 1.38		16.2A	20.5	16.1	47.3
0.7 - 0.75 1.3 - 1.35							1.44 1.44		13.7A	20.4	9.2	56.7

Depth	COLE	Grav	Gravimetric/Volumetric Water Contents					Gravimetric/Volumetric Water Contents K				K unsat
m		Sat. 0.05 Bar	0.1 Bar 0.5 Bar 1 Bar g/g - m3/m3	5 Bar	15 Bar	mm/h	mm/h					
0.1 - 0.15 0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	0.087A 0.127A 0.113A 0.122A		0.25G 0.31G 0.28G 0.26G		0.18D 0.19D 0.17D 0.17D							

Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 420Observation 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)