Project Name:	Soils of the Lo	ower Macqua	arie Val	ley, New South Wales	
Project Code: Agency Name:	Macquarie CSIRO Divisio	Site ID: on of Soils (A		Observation ID:	1

Site Informati Desc. By: Date Desc.: Map Ref.: Northing/Long. Easting/Lat.: <u>Geology</u> ExposureType: Geol. Ref.:	N.J. N 13/10 Sheet 6450 60406	t No. : 8533 1:10000 133 AMG zone: 55 67 Datum: AGD66 bit	Locality: Elevation: Rainfall: Runoff: Drainage: Conf. Sub. is Pare Substrate Material		tly draine No Data No Data	a
Land Form Rel/Slope Class Morph. Type: Elem. Type: Slope:	Flat No D %	ata	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data		
Surface Soil (Erosion:	Sonditio	on (dry): Hardsetting				
Soil Classifica	ation					
Australian Soil	Classifi	cation:	Маррі	ng Unit:		OLD ALLUVIUM MEANDER PLAIN
N/A ASC Confidence				pal Profile Soil Grouj		MEANDER PLAIN Gn3.15 N/A
Confidence leve Site Disturbar		ecified omplete clearing. Pasture, nat	ive or improved cult	ivated at so	ome stad	e
Vegetation:	<u></u> 00	implete oleaning. Fastare, hat			onie ołag	0
Surface Coor		all Strata - Tussock grass, 0.5	1-1m, Mid-dense. *S	pecies incl	udes - N	one Recorded
Surface Coars		ments:				
A1 0 - 0.12		Dark reddish brown (5YR2/3 Angular blocky; Rough-ped macropores, Common (1-5 Field pH 7 (Raupach); Com	fabric; Common (1-5 per 100mm2) Fine (1	5 per 100m 1-2mm) ma	m2) Very Icropores	/ fine (0.075-1mm)
A2 0.12 - 0).27 m	3 / 0 1	lany (>5 per 100mm)) macropores, Few (2) Very fine <1 per 0.0	e (0.075- ⁻ 1m2) Me	1mm) macropores, Many (>5 dium (2-5mm) macropores,
B21 0.27 - ().95 m	Dark red (2.5YR3/5-Moist); structure, 10-20 mm, Angula (0.075-1mm) macropores, N 0.01m2) Medium (2-5mm) n >50% of ped faces or walls	ar blocky; Smooth-pe /any (>5 per 100mm nacropores, Moderat	ed fabric; N 2) Fine (1- ely moist; V	lany (>5 2mm) ma Weak coi	per 100mm2) Very fine acropores, Few (<1 per nsistence; Many cutans,
B22 0.95 - 7	1.4 m	Dark reddish brown (2.5YR3 grade of structure, 10-20 m consistence; Many cutans, s	nm, Angular blocky; S	Smooth-pe	d fabric; l	
Morphologica	I Notes					
A1 Observation	late -	Profile seems slightly heavie	r than 413			
I INCONVOTION	NOTOE					

Observation Notes Mitchell Soil Profile Class, Well Drained Phase

Site Notes

Project Name:	Soils of the Lo	wer Macqua	arie Valle	ey, New South Wales	
Project Code:	Macquarie	Site ID:	414	Observation ID:	1
Agency Name:	CSIRO Divisio	n of Soils (A	ACT)		

Laboratory Test Results:

Depth	рН	1:5 EC	E) Ca	changeable (Mg	Cations K	Exchangeable Na Acidity	CEC	ECEC	ESP
m		dS/m	54	mg	K .	Cmol (+)/kg			%
0.1 - 0.15 0.3 - 0.35	7A 7A	0.034A 0.021A	3.1E	0.4	0.7	0.1		4.3D	
0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	7.9A 8.3A	0.021A 0.031A 0.041A	7.8E	5.1	0.7	0.5		14.1D	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	article	Size A	nalysis	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							1.73 1.70		25A	44.7	14.4	15.9
0.7 - 0.75 1.3 - 1.35							1.67 1.51		16.9A	25.1	8.2	49.8

Depth	COLE	Gra	avimetric/Volumetric Water C	Contents		K sat	K unsat
m		Sat. 0.05 Ba	0.1 Bar 0.5 Bar 1 Ba g/g - m3/m3	ar 5 Bar	15 Bar	mm/h	mm/h
0.1 - 0.15 0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	0.019A 0.025A 0.043A 0.088A		0.13G 0.12G 0.19G 0.25G		0.05D 0.06D 0.16D 0.18D		

Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 414Observation 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)