Project Name: Project Code: Agency Name:	Ма	ils of the Lower Macquan cquarie Site ID: IRO Division of Soils (A0	214 O	outh Wales bservation	ID:	1
Site Informatio Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	N.J. N 16/06 Shee 64620	McKenzie 5/85 t No. : 8534 1:10000 600 AMG zone: 55 00 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	No Data No Data Slow Moderately	well dr	rained
<u>Geology</u> ExposureType: Geol. Ref.:	Soil p No D		Conf. Sub. is Parent. Mat.: No Data Substrate Material: No Data			
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope:	Mid-s No D %	slope Jata	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data		
	onditio	on (dry): Firm, Recently cu	ultivated			
Erosion: Soil Classificat	tion					
Australian Soil C N/A		cation:	Маррі	ng Unit:		GIN GIN AEOLIAN DEPOSITS
ASC Confidence Confidence level Site Disturbane	not spe					Gn4.12 N/A
Vegetation:	<u>.</u> 00					
Surface Coarse	-	ments:				
A1 0 - 0.2 m		Dark reddish brown (5YR3/	3-Moist): · Sandy cla	w: Week grade	o of str	ructure 20-50 mm Angular
AT 0-0.2 II	I	blocky; Rough-ped fabric; C Common (1-5 per 100mm2) 5mm) macropores, Moderal fine (0-1mm) roots; Many, fi	Common (1-5 per 100) Fine (1-2mm) macro tely moist; Weak con	mm2) Very fir opores, Comn sistence; Field	ne (0.0 non (1 d pH 6	075-1mm) macropores, -5 per 0.01m2) Medium (2- .5 (Raupach); Many, very
B1 0.2 - 0.8	m	Red (2.5YR4/8-Moist); ; Lig Subangular blocky; Rough- macropores, Many (>5 per Medium (2-5mm) macropor faces or walls coated; Field	ped fabric; Many (>5 100mm2) Fine (1-2m es, Moderately moist	per 100mm2) m) macropore ; Firm consist) Very es, Co tence;	fine (0.075-1mm) mmon (1-5 per 0.01m2) Few cutans, <10% of ped
B2 0.8 - 1.35 m Strong brown (7.5YR4/6-Moist); , 10R46, 20-50% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, 50-100 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Many (>5 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 0.01m2) Medium (2-5mm) macropores, Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; 0-50% of ped faces or walls coated; Field pH 7.5 (Raupach); Few, very fine (0-1mm) roots;					ric; Many (>5 per 100mm2) -2mm) macropores, Few (<1 2-10%, medium gravelly, 6- elly, 2-6mm, subrounded,	
Morphological	Notes	3				

<u>NIC</u> A1

tes Wheat fallow, infilled tree root channels ~ 2-5mm

Observation Notes Gin Gin Soil Profile Class, Wheat - fallow

Site Notes

Project Name:	Soils of the Lo	wer Macqua	arie Valle	ey, New South Wales	
Project Code:	Macquarie	Site ID:	214	Observation ID:	1
Agency Name:	CSIRO Divisio	n of Soils (A	NCT)		

Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Mg	Cations K	Ex Na	changeable Acidity	CEC		ECEC		ESP
m		dS/m				Cmol (+)/I						%
0.1 - 0.15 0.3 - 0.35	6.4A 6.5A	0.034A 0.016A	6E	1.1	1	0				8.1D		
0.7 - 0.75 1.3 - 1.35	7A 7.5A	0.012A 0.024A	2.6E	1.6	0.5	0.1				4.8D		
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk					
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0.1 - 0.15 0.3 - 0.35							1.52 1.57		17.8A	34.5	16	31.7
0.7 - 0.75 1.3 - 1.35							1.66 1.63		14.9A	28.3	8.5	48.3

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 Bar g/g - m3/m3	mm/h	mm/h
0.1 - 0.15 0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	0.03A 0.016A 0.023A 0.055A	0.19G0.1D0.17G0.11D0.16G0.13D0.19G0.15D		

Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 214Observation 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)