Project Nam Project Code Agency Nam	e: Ma	ils of the Lower Macquar acquarie Site ID: SIRO Division of Soils (AC	219 O	outh Wales bservation	ID: ´	1
Site Informa Desc. By: Date Desc.: Map Ref.: Northing/Long Easting/Lat.:	N.J. 17/06 Shee g.: 6464	McKenzie 6/85 et No. : 8534 1:10000 500 AMG zone: 55 00 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	No Data No Data Moderately r Moderately v		ained
<u>Geology</u> ExposureType Geol. Ref.:	e: Soil No E		Conf. Sub. is Parent. Mat.: No Dat Substrate Material: No Dat			
Land Form Rel/Slope Clas Morph. Type: Elem. Type: Slope: Surface Soil	Cres No E %	it Data	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data		
Erosion:	Contanti	on (ary).	9			
Soil Classifie	cation					
Australian Soil Classification: N/A			Mapping Unit:			GIN GIN AEOLIAN DEPOSITS
	ASC Confidence: Confidence level not specified			pal Profile Fo Soil Group:	orm:	Dr2.12 N/A
	ance: Co	omplete clearing. Pasture, nat	ive or improved, cult	ivated at some	e stage	e
Vegetation:	Т	all Strata - Tussock grass, <0.	25m Sparse *Spec	ies includes - l	None	Recorded
Surface Coa		0			None	
Profile Morp	hology					
A1 0 - 0.	17 m	Dark reddish brown (5YR3/3 Subangular blocky; Many (> 100mm2) Fine (1-2mm) may Moderately moist; Weak cor Many, fine (1-2mm) roots; M Smooth change to -	-5 per 100mm2) Very cropores, Many (>5 p nsistence; Field pH 8	/ fine (0.075-1 per 100mm2) (Raupach); M	mm) r Mediu ⁄lany, v	nacropores, Many (>5 per m (2-5mm) macropores, very fine (0-1mm) roots;
B1 0.17 -	0.47 m Red (2.5YR4/6-Moist); ; Medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Many (>5 per 100mm2) Fine (1- 2mm) macropores, Many (>5 per 100mm2) Medium (2-5mm) macropores, Moderately moist; Firm consistence; Few cutans, <10% of ped faces or walls coated; Field pH 7 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Common, coarse (>5mm) roots; Clear, Smooth change to -					
B21 0.47 -	· 0.85 m	Red (2.5YR4/7-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Polyhedral; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; 90-100%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; Common cutans, 10-50% of ped faces or walls coated; Field pH 7 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Diffuse, Smooth change to -				
B22 0.85 -	· 1.35 m	 Yellowish red (5YR5/8-Moist); ; Sandy clay; Moderate grade of structure, 10-20 mm, Polyhedral; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; Few cutans, <10% of ped faces or walls coated; Field pH 7.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; 				
Morphologic	al Note:					
A1		Crest (flat)				

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

Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 219Observation ID: 1Agency Name:CSIRO Division of Soils (ACT)

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Project Code:	Macquarie	••	-	Observation ID:	1
Agency Name:	CSIRO Division	of Soils (A	CT)		

Laboratory Test Results:

Depth	рН	1:5 EC		nangeable Ag	Cations K	Ex Na	changeable Acidity	CEC	I	ECEC		ESP
m		dS/m	Ju I	ng	N.	Cmol (+)/k						%
0.1 - 0.15 0.3 - 0.35	5.9A 6.3A	0.112A 0.054A	1.5E	0	0.6	0				2.1D		
0.7 - 0.75 1.3 - 1.35	7A 8A	0.069A 0.234A	6.2E	2.7	0.2	0.3				9.4D		
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk				nalysi	
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0.1 - 0.15 0.3 - 0.35							1.54 1.74		25.1A	43.9	8	22.9
0.7 - 0.75 1.3 - 1.35							1.64 1.64		11.8A	15.9	4	68.3

Depth	COLE	Gravimetric/Volumetric Water Contents				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	0.032A 0.021A 0.024A 0.106A		0.11G 0.13G 0.17G 0.2G	0.07D 0.1D 0.16D 0.17D		

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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)