Project Name: Project Code: Agency Name:	Soils of the Lower Macqua Macquarie Site ID: CSIRO Division of Soils (A	220 O	outh Wales bservation ID:	1
Site Information Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	N.J. McKenzie 17/06/85 Sheet No. : 8534 1:10000	Locality: Elevation: Rainfall: Runoff: Drainage:	No Data No Data Moderately rapid Well drained	
<u>Geology</u> ExposureType: Geol. Ref.:	Soil pit No Data	Conf. Sub. is Pare Substrate Material		
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope: Surface Soil Co	No Data Mid-slope No Data % ondition (dry): Firm, Hardsetting	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data	
	e, Minor or present (wind);	g		
Soil Classificat				
Australian Soil C N/A	lassification:	Маррі	ng Unit:	GIN GIN AEOLIAN DEPOSITS
ASC Confidence Confidence level I		Great	pal Profile Form: Soil Group:	Gn4.12 N/A
Vegetation:	.e. Complete cleaning. Pasture, na	line of improved, cult	valeu al some slag	
	Tall Strata - Tussock grass, <0	.25m, Sparse. *Speci	es includes - None	Recorded
Surface Coarse				
Profile Morpho A1 0 - 0.15 r		(2 Moist): · Sandy clay	Modorato grado (of structure, 20,50 mm
AT 0-0.131	Platy; Earthy fabric; Comm (1-5 per 100mm2) Fine (1-2 macropores, Common (1-5	on (1-5 per 100mm2) 2mm) macropores, Fe per 0.01m2) Medium Raupach); Common,	Very fine (0.075-1r ew (<1 per 0.01m2) (2-5mm) macropo	mm) macropores, Common
B1 0.15 - 0.68 m Yellowish red (5YR3/6-Moist); ; Light medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Many (>5 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 0.01m2) Medium (2-5mm) macropores, Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; 0-2%, coarse gravelly, 20-60mm, subrounded, dispersed, coarse fragments; Few cutans, <10% of ped faces or walls coated; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Diffuse change to -				
B2 0.68 - 1.3	grade of structure, 10-20 m fine (0.075-1mm) macropol	nm, Polyhedral; Rough res, Common (1-5 pel nm) macropores, Dry; sed, coarse fragment arse fragments; Comr	n-ped fabric; Comm r 100mm2) Fine (1- Firm consistence; s; 2-10%, coarse g mon cutans, 10-50%	ion (1-5 per 100mm2) Very 2mm) macropores, Few (<1 2-10%, medium gravelly, 6- ravelly, 20-60mm,
Morphological Observation No				

Observation Notes Gin Gin Soil Profile Class Site Notes

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Project Code:	Macquarie	••	220	Observation ID:	1
Agency Name:	CSIRO Division	of Soils (A	CT)		

Laboratory Test Results:

Depth	pН	1:5 EC	Ex Ca	changeable Mg	Cations K		hangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ja	Mg	ĸ	Cmol (+)/kg				%
0.1 - 0.15	6A	0.021A	3.3E	0	0.5	0			3.8D	
0.3 - 0.35	5.2A	0.031A								
0.7 - 0.75	5.5A	0.017A	1.4E	1.6	0.3	0.1			3.4D	
1.3 - 1.35	6A	0.017A								
Depth	CaCO3	Organic C	Avail. P	Total	Total N	Total K	Bulk Densitv	Particl GV CS		Analysis Silt Clav

m	%	°	P mg/kg	Р %	N %	к %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0.1 - 0.15 0.3 - 0.35							1.51 1.42		15.4A	36.4	14.4	33.8
0.7 - 0.75 1.3 - 1.35							1.59 1.66		15A	28.2	8.7	48.1

Depth	COLE	Gravimetric/Volumetric Water Contents				K sat	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	0.019A 0.036A 0.016A 0.023A		0.15G 0.15G 0.15G 0.16G		0.09D 0.09D 0.12D 0.13D			

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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)