Project Name: Project Code: Agency Name: Soils of the Lower Macquarie Valley, New South Wales Macquarie Site ID: 260 Observation CSIRO Division of Soils (ACT) Observation ID: 1

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Site Information Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	N.J. McKenzie 19/10/85 Sheet No. : 8533 1:10000	Locality: Elevation: Rainfall: Runoff: Drainage:	No Data No Data Moderate Well drain				
<u>Geology</u> ExposureType: Geol. Ref.:	Soil pit No Data	Conf. Sub. is Pare Substrate Material		No Dat No Dat			
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope: Surface Soil Co	Mid-slope No Data %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data				
Surface Soil Co	ondition (dry): Hardsetting						
Erosion:							
Soil Classificat	ion						
Australian Soil C N/A	lassification:	Маррі	ng Unit:		GIN GIN AEOLIAN DEPOSITS		
		Princi	pal Profile	Form:	Dr3.42		
ASC Confidence	:	Great	Soil Group) :	N/A		
Confidence level r	not specified		-				
Site Disturbanc	complete clearing. Pasture, nat	tive or improved, but	never cultiv	/ated			
Vegetation:							
Tall Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - None Recorded							
Surface Coarse Fragments:							
Profile Morphol	logy						

A1	0 - 0.2 m	Dark reddish brown (5YR3/3-Moist); ; Sandy clay loam; Moderate grade of structure, 50-100 mm, Subangular blocky; 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, Moist; Weak consistence; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Many, fine (1-2mm) roots; Many, medium (2-5mm) roots; Gradual, Smooth change to -
A2	0.2 - 0.45 m	Yellowish red (5YR4/7-Moist); Reddish yellow (5YR6/6-Dry); ; Sandy clay loam; Moderate grade of structure, 50-100 mm, Subangular blocky; 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, Moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; Field pH 7.5 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Abrupt, Smooth change to -
B2	0.45 - 1.35 m	Red (2.5YR4/6-Moist); , 5YR56, 2-10% , 15-30mm, Faint; Light medium clay; Strong grade of structure, 20-50 mm, Polyhedral; 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; Many cutans, >50% of ped faces or walls coated; Field pH 7.5 (Raupach); Few, very fine (0-1mm) roots;
Morph	ological Notes	

A1 Sandy, very tough soil

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

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Agency Mame.			01)		

Laboratory Test Results:

Depth	рН	1:5 EC C		changeable Mg	Cations K	Exchangeable Na Acidity	CEC	ECEC	ESP
m		dS/m	u	g	R	Cmol (+)/kg			%
0.1 - 0.15 0.3 - 0.35	6.4A 7.9A	0.028A 0.021A	5.3E	0.2	0.2	0		5.7D	
0.7 - 0.75 1.3 - 1.35	7.7A 7.3A	0.045A 0.083A	4.9E	2.1	0.2	0.1		7.3D	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Р	article	Size	Analysi	s
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0.1 - 0.15 0.3 - 0.35							1.66 1.80		36.5A	42	9.5	12
0.7 - 0.75 1.3 - 1.35							1.77 1.65		24.6A	25.3	3 6.2	44

Depth	COLE		Grav	K sat	K unsat					
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar /g - m3/m3	1 Bar 3	5 Bar	15 Bar	mm/h	mm/h
0.1 - 0.15 0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	0.036A 0.011A 0.029A 0.04A			0.11G 0.09G 0.15G 0.17G				0.04D 0.04D 0.11D 0.14D		

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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)