Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 329Observation ID: 1Agency Name:CSIRO Division of Soils (ACT)

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<u>Site In</u>	formation	<u>n</u>					
Desc. E			McKenzie	Locality:			
Date D		03/08		Elevation:	No Data		
Map Re			t No. : 8434 1:10000	Rainfall:	No Data		
	ng/Long.:		800 AMG zone: 55	Runoff:	Slow	- :	
Easting		59060	00 Datum: AGD66	Drainage:	Poorly dr	ained	
<u>Geolo</u>							
	ureType:	Soil p		Conf. Sub. is Pare		No Dat	
Geol. F	Ref.:	No D	ata	Substrate Materia	l:	No Dat	a
Land I	Form						
Rel/Slo	pe Class:	No D	ata	Pattern Type:	No Data		
Morph.	Type:	Oper	n depression (vale)	Relief:	No Data		
Elem. 1	Гуре:	No D	ata	Slope Category:	No Data		
Slope:		%		Aspect:	No Data		
Surfac	e Soil Co	onditio	on (dry): Cracking				
Erosic							
		lan					
<u>5011 C</u>	lassificati	ion					
Austra	lian Soil Cl	lassifi	cation:	Mappi	ing Unit:		OLD ALLUVIUM
N/A							BACKPLAIN
				Princi	pal Profile	Form:	Ug5.24
ASC C	onfidence	:		Great	Soil Group) :	N/A
	ence level r		ecified				
Site D	isturbanc	:e: Ėx	tensive clearing, for example	poisonina, ringbarki	na		
Vegeta			3, 11	J	5		
vegen		Та	all Strata - Tree, 12.01-20m, S	Snarse *Snecies inc	ludes - Fuc	alvotus i	opulnea
Surfac	e Coarse					alyptus	oopunicu
-			ments.				
Profile	e Morphol						
A1	0 - 0.11 n	n	Brown (7.5YR4/3-Moist); ; \$				
							mm2) Very fine (0.075-1mm)
			macropores, Many (>5 per				
			Medium (2-5mm) macropor				
			fine (0-1mm) roots; Many, fi	ine (1-2mm) roots; A	brupt, Smo	oth chan	ige to -
A2	0.11 - 0.2	28 m	Dark greyish brown (10YR4	/2-Moist): Light grev	(10YR7/2-	Drv): : M	edium heavy clay: Strong
							(0 - 5) mm crack; Many (>5
			per 100mm2) Very fine (0.0				
							res, Moist; Firm consistence;
			Common cutans, 10-50% o				
			(0-1mm) roots; Many, fine (1-2mm) roots; Many	, medium (2	2-5mm) r	oots; Gradual, Smooth
			change to -				
5.6.4			5				
B21	0.28 - 0.5	55 m	Dark greyish brown (10YR4				
							on (1-5 per 100mm2) Very fine
							m) macropores, Few (<1 per
			50% of ped faces or walls c	nacropores, Modera	(Deupoch)	Commo	sistence; Common cutans, 10-
			Common, fine (1-2mm) root			Commo	n, very line (0- mm) roots,
			Common, mile (1-2mm) 100		nange to -		
B22	0.55 - 0.9	92 m	Weak red (2.5YR5/2-Moist)	; ; Medium heavy cla	ay: Strong g	rade of s	structure, 10-20 mm, Angular
							per 100mm2) Very fine (0.075-
			1mm) macropores, Commo	n (1-5 per 100mm2)	Fine (1-2m	m) maci	opores, Moderately moist;
			Firm consistence; Common	cutans, 10-50% of p	bed faces o	r walls c	oated; Field pH 8 (Raupach);
			Few, very fine (0-1mm) roo	ots; Gradual, Smooth	n change to	-	
Do	0.00 1.7			0)/D 40 00 500/ -	45		diama alaya Davada - 14 1 1
B3	0.92 - 1.3	35 m					dium clay; Rough-ped fabric;
			Fine, (0 - 5) mm crack; Mar				
			consistence; Common cuta		aces or wall	s coated	; Field pH 7.5 (Raupach);
			Few, very fine (0-1mm) root	15,			
Morph	ological	Notes	6				
A1			A11 is a separate deposition	; either wind or wate	r. The pro	file is pr	obably an end
			member of the sequence on				

A11 is a separate deposition; either wind or water. The profile is probably an end member of the sequence on the plain. Thre red-brown A11 covers a big cracking clay.

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Byron Soil Profile Class Site Notes

Project Name:	Soils of the Lowe	er Macquar	rie Valley, New	South Wales	
	Macquarie CSIRO Division o	••		Observation ID:	1

Laboratory Test Results:

Depth	рН	1:5 EC Ca	Exchangeabl Mg	e Cations K	Exchangeable Na Acidity	CEC	ECEC	ESP
m		dS/m	ing		Cmol (+)/kg			%
0.1 - 0.15 0.3 - 0.35	6.4A 7.4A	0.073A 6. 0.102A	4E 2.8	0.6	0.4		10.2D	
0.7 - 0.75 1.3 - 1.35	8.4A 8A	0.227A 15 0.161A	.8E 11.5	0.6	2.8		30.7D	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	article	Size A	nalysis
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt Clay
0.1 - 0.15 0.3 - 0.35							1.55 1.45		5.3A	32.7	29.3 32.8
0.7 - 0.75 1.3 - 1.35							1.48 1.72		3.8A	20.1	22.5 53.7

Depth	COLE		Gravimetric/Volumetric Water Contents					K sat	K unsat	
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar g - m3/m3	1 Bar	5 Bar	15 Bar	mm/h	mm/h
0.1 - 0.15 0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	0.026A 0.072A 0.078A 0.032A			0.18G 0.23G 0.24G 0.15G				0.1D 0.18D 0.18D 0.1D		

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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)