Project Name:	Soils of the Lo	wer Macqua	arie Vall	ey, New South Wales	
Project Code:	Macquarie	Site ID:	429	Observation ID:	1
Agency Name:	CSIRO Divisio	n of Solis (A	ACT)		

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Site Informa Desc. By: Date Desc.: Map Ref.: Northing/Lon Easting/Lat.:	N.J. 20/1 Shee g.: 6455	McKenzie 0/85 et No. : 8533 1:10000 i725 AMG zone: 55 25 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	No Data No Data Slow Imperfec	tly draine	d
<u>Geology</u> ExposureTyp Geol. Ref.:	e: Soil No [•	Conf. Sub. is Pare Substrate Material		No Data No Data	
Land Form Rel/Slope Cla Morph. Type: Elem. Type: Slope:			Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data		
Surface Soi	l Conditi	ion (dry): Hardsetting				
Erosion:						
Soil Classif	<u>cation</u>					
Australian So N/A	il Classif	ication:	Маррі	ng Unit:		TRANGIE COWAL ALLUVIUM
ASC Confide Confidence le		ecified		pal Profile Soil Grou		Gn4.13 N/A
	•	omplete clearing. Pasture, nat	ive or improved, but	never culti	vated	
Vegetation:						
		all Strata - Tree, 12.01-20m, S	sparse. *Species incl	udes - Nor	ne Record	ded
Surface Coa		gments:				
Profile Mor A1 0-0		Brown (7.5YR4/3-Moist); ; S Rough-ped fabric; Many (>5 100mm2) Fine (1-2mm) may Firm consistence; 10-20%, of fragments; Field pH 6.5 (Ra Clear, Smooth change to -	5 per 100mm2) Very cropores, Few (<1 pe coarse gravelly, 20-6	fine (0.075 er 0.01m2) 0mm, sub	-1mm) m Medium angular, o	acropores, Many (>5 per (2-5mm) macropores, Moist; dispersed, coarse
B21 0.2 -	0.65 m	Dark reddish brown (5YR3/3 Angular blocky; Rough-ped (0.075-1mm) macropores, C moist; Very firm consistence cutans, 10-50% of ped face 1mm) roots; Common, fine	fabric; Fine, (0 - 5) m Common (1-5 per 100 e; Common cutans, 1 s or walls coated; Fie	nm crack; (0mm2) Fin 0-50% of j eld pH 7.5	Common e (1-2mm bed faces (Raupach	(1-5 per 100mm2) Very fine n) macropores, Moderately s or walls coated; Common n); Common, very fine (0-
B22 0.65	B22 0.65 - 1.35 m Brown (7.5YR4/4-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; Common cutar 10-50% of ped faces or walls coated; Common cutans, 10-50% of ped faces or walls coated; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Nodules; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 8.5 (Raupach); Common, very fine					
Morphologi	cal Note	<u>s</u>				
A1		Coarse fragments are solid r	ed soil; sample taker	n.		
Observation	Notes					

Observation Notes Byron Soil Profile Class

Site Notes

Project Name:	Soils of the Low	er Macqua	rie Valley, New	South Wales	
Project Code: Agency Name:	Macquarie CSIRO Division	Site ID: of Soils (A	-	Observation ID:	1

Laboratory Test Results:

Depth	рН	1:5 EC	Exo a	changeable Mg	Cations K	Exchangeable Na Acidity	CEC	ECEC	ESP
m		dS/m	a	Wg	n	Cmol (+)/kg			%
0.1 - 0.15 0.3 - 0.35	6.8A 7.8A	0.065A 0.079A	7.2E	4.3	0.7	0.7		12.9D	
0.7 - 0.75 1.3 - 1.35	8.6A 8.3A	0.576A 1.01A	10.5E	9.3	0.4	3.1		23.3D	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	article	Size A	nalysis	5
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	cs	FS %	Silt	Clay
0.1 - 0.15 0.3 - 0.35							1.46 1.51		3.6A	25.7	32.7	38
0.7 - 0.75 1.3 - 1.35							1.47 1.46		1.8A	16	32.8	49.3

Depth	COLE	C	Gravimetric/Volumetric Water Contents						
m		Sat. 0.05 E		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	0.089A 0.078A 0.067A 0.072A		0.25G 0.25G 0.25G 0.26G				0.17D 0.18D 0.18D 0.18D 0.18D		

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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)