Project Name:	Soils of the Lo	wer Macqua	arie Vall	ey, New South Wales	
Project Code:	Macquarie	Site ID:	509	Observation ID:	1
Agency Name:	CSIRO Divisio	n of Soils (A	NCT)		

Site Infor Desc. By: Date Desc. Map Ref.: Northing/L Easting/La Geology	N. 01 Sh .ong.: 64	J. McKenzie /12/85 neet No. : 8434 1:10000 /73267 AMG zone: 55 /7667 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	No Data No Data Slow Imperfectly drair	ned
Exposure Geol. Ref.:		oil pit o Data	Conf. Sub. is Pare Substrate Material		
Land For Rel/Slope Morph. Typ Elem. Type Slope:	Class: No pe: Fl e: No %	o Data lat o Data %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data	
Erosion:		lition (dry): Cracking, Self-mu	uiching, Recently cui	livated	
Soil Class	sification	<u>1</u>			
Australian N/A	Soil Class	sification:	Mappi	ng Unit:	OLD ALLUVIUM BACKPLAIN
Vegetatio Surface C Profile Me A1 0	e level not urbance: on: Coarse Fr orpholog - 0.24 m	Cultivation. Rainfed Tall Strata - Tussock grass, 0.5 ragments: Dark greyish brown (10YR4/ Granular; Rough-ped fabric; Moist; Firm consistence; Fie change to -	Great 1-1m, Sparse. *Spec /2-Moist); ; Medium ł Common (1-5 per 1 ld pH 8.5 (Raupach)	neavy clay; Weak 00mm2) Very fine ; Many, medium (N/A ne Recorded grade of structure, 5-10 mm, e (0.075-1mm) macropores, 2-5mm) roots; Clear, Smooth
B21 0.	24 - 0.55 n	Polyhedral; Smooth-ped fab 1mm) macropores, Moist; Ve	ric; Fine, (0 - 5) mm ery firm consistence;	crack; Few (<1 pe Many cutans, >5	er 100mm2) Very fine (0.075-
B22 0.	55 - 1.1 m	Polyhedral; Smooth-ped fab 1mm) macropores, Moderate or walls coated; , Calcareous	ric; Fine, (0 - 5) mm ely moist; Very firm o s, Medium (2 -6 mm)	crack; Few (<1 pe consistence; Many , Nodules; , Calca	of structure, 20-50 mm, er 100mm2) Very fine (0.075- y cutans, >50% of ped faces areous, Medium (2 -6 mm), Soft s; Gradual, Smooth change to -
B3 1.	1 - 1.35 m	Lenticular; Smooth-ped fabri	ic; Moderately moist; Calcareous, Medium	Very firm consist (2 -6 mm), Nodu	rade of structure, 10-20mm, ence; Many cutans, >50% of les; , Gypseous, Medium (2 -6 its;
Morpholo B3 Observat		A few grey unfilled channels	in B3. A1 interfinge	rs due to cracks.	

Observation Notes

Mullah Soil Profile Class, Grey Phase

Site Notes

Project Name:	Soils of the Lov	ver Macqua	arie Valley, New	South Wales	
Project Code:	Macquarie	Site ID:	509	Observation ID:	1
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Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeable Mg	e Cations K	Exchangeable Na Acidity	CEC	ECEC	ESP
m		dS/m	Ca	wig	n	Cmol (+)/kg			%
0.1 - 0.15 0.3 - 0.35	8.6A 9.1A	0.139A 0.244A	25.6E	4.6	0.4	0.4		31D	
0.7 - 0.75 1.3 - 1.35	9.1A 7.9A	0.633A 3.82A		13.8	0.5	7.4		34D	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	article	Size A	nalysis	5
		С	Р	Р	Ν	к	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0.1 - 0.15 0.3 - 0.35							1.37 1.45		7.6A	32.8	13	46.5
0.7 - 0.75 1.3 - 1.35							1.35 1.34		11.4A	27	12.9	4.7

Depth	COLE	Grav	Gravimetric/Volumetric Water Contents					
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	0.055A 0.084A 0.119A 0.107A		0.28G 0.27G 0.33G 0.32G		0.17D 0.21D 0.2D 0.22D			

Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 509Observation ID: 1Agency Name:CSIRO Division of Soils (ACT)

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)