

Project Name: SC
Project Code: SC **Site ID:** C317 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	P.H. Walker	Locality:	1.8KM east of beginning Macquarie Pass climb:roadcutting
Date Desc.:	06/05/57	Elevation:	100 metres
Map Ref.:	Sheet No. : 9028 1:100000	Rainfall:	1250
Northing/Long.:	150.7	Runoff:	Moderately rapid
Easting/Lat.:	-34.65	Drainage:	Well drained

Geology

Exposure Type:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Non-porous, dense, Sandstone

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Simple-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Moderately inclined
Slope:	5 %	Aspect:	No Data

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Mottled Magnesic Red Kurosol	Principal Profile Form:	N/A
ASC Confidence:	Great Soil Group:	Red earth
All necessary analytical data are available.		

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation: Low Strata - Sod grass, <0.25m, Closed or dense. *Species includes - None recorded

Surface Coarse Fragments: 10-20%, medium gravelly, 6-20mm, rounded, Gravel

Profile Morphology

A11	0 - 0.1 m	Dark reddish brown (5YR2/2-Moist); Very dark greyish brown (10YR3/2-Dry); ; Sandy loam; Massive grade of structure; Dry; Weak consistence; 10-20%, medium gravelly, 6-20mm, rounded, dispersed, Gravel, coarse fragments; Field pH 5.9 (pH meter); Wavy change to -
A12	0.1 - 0.28 m	Strong brown (7.5YR5/5-Moist); Dark reddish brown (5YR3/3-Dry); ; Loam (Light); Massive grade of structure; Dry; Very weak consistence; 10-20%, medium gravelly, 6-20mm, rounded, dispersed, Gravel, coarse fragments; Field pH 6.2 (pH meter); Wavy change to -
B1	0.28 - 0.61 m	Yellowish red (5YR5/6-Moist); Yellowish red (5YR4/6-Dry); ; Clay loam, sandy; Massive grade of structure; Dry; Firm consistence; 20-50%, dispersed, Sandstone, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 6 (pH meter); Wavy change to -
B2	0.58 - 1.04 m	Dark red (10R3/6-Moist); , 2.5YR4/6; Medium clay; Massive grade of structure; Moderately moist; Very firm consistence; 20-50%, dispersed, Sandstone, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5.4 (pH meter); Wavy change to -
B2	1.14 - 1.6 m	Dusky red (10R3/4-Moist); , 10YR5/5, 2-10% ; , 2-10% ; Medium clay; Massive grade of structure; Moderately moist; Very firm consistence; 20-50%, dispersed, Sandstone, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5.3 (pH meter); Wavy change to -
B2C	1.6 - 2.13 m	Dusky red (10R3/4-Moist); , 5Y5/5, 2-10% ; , 2-10% ; Medium clay; Massive grade of structure; Moderately moist; Very firm consistence; 20-50%, dispersed, Sandstone, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 5 (pH meter);

Morphological Notes

Observation Notes

OLD LOTTAL SURFACE I.E. OLDER MASS MOVEMENT SOIL MACQUARIE PASS:PARENT MATERIAL POSSIBLY MIXED BASALT/SANDSTONE

Site Notes

JAMBEROO

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				cmol (+)/kg				%
0 - 0.1	5.9A	0.033A	4.3K	1.8	0.35	0	26.4E		32.9B	
0.1 - 0.28	6.2A	0.018A								
0.28 - 0.51	6A	0.021A								
0.58 - 1.04	5.4A	0.024A	0.13K	2.7	0.1	0.11	10.4E		13.4B	
1.14 - 1.6	5.3A	0.024A								
1.6 - 2.13	5A	0.024A	0K	1.1	0.06	<0.01	11.6E		12.8B	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		3.55F						2	34D	42	14	7
0.1 - 0.28		1.36F						2	30D	37	14	20
0.28 - 0.51		0.6F						1	33D	36	10	21
0.58 - 1.04		0.13F						3	27D	23	6	43
1.14 - 1.6								4	27D	20	8	44
1.6 - 2.13								4	29D	17	8	45

[illegible]

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Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
15G1_H	Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6_DC	Organic carbon (%) - Dry combustion
P10_GRAV	Gravel (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance