

Project Name: SOIL STRUCTURE & MANAGEMENT
Project Code: SSM **Site ID:** SSM216 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	B. Murphy	Locality:	
Date Desc.:	13/03/92	Elevation:	220 metres
Map Ref.:	Sheet No. : 8327 1:100000	Rainfall:	No Data
Northing/Long.:	6086600 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	506700 Datum: AGD66	Drainage:	Moderately well drained

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Low hills
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Footslope	Slope Category:	No Data
Slope:	1 %	Aspect:	180 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Dy2.23
		Great Soil Group:	Yellow earth

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.02 m	Brown (7.5YR5/4-Moist); Light brown (7.5YR6/4-Dry); ; Fine sandy loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; Field pH 5 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Gradual change to -
A21	0.02 - 0.1 m	Brown (7.5YR5/4-Moist); Light brown (7.5YR6/4-Dry); ; Fine sandy loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence; Field pH 4.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Gradual change to -
B1	0.1 - 0.28 m	Strong brown (7.5YR5/6-Moist); Reddish yellow (7.5YR6/6-Dry); ; Loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Gradual change to -
B21	0.28 - 0.49 m	Yellowish red (5YR5/8-Moist); Reddish yellow (5YR6/8-Dry); ; Light clay; Moderate grade of structure, 20-50 mm, Subangular blocky; 20-50 mm, Columnar; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; Common cutans, 10-50% of ped faces or walls coated, faint; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Veins; Field pH 7 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Gradual change to -
B31	0.49 - 0.77 m	Reddish yellow (7.5YR6/6-Moist); Reddish yellow (7.5YR6/8-Dry); Substrate influence, 20-50% , Distinct; Light medium clay; Strong grade of structure, 20-50 mm, Subangular blocky; 20-50 mm, Columnar; Smooth-ped fabric; Dry; Weak consistence; Many cutans, >50% of ped faces or walls coated, distinct; Very many (50 - 100 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Very many (50 - 100 %), Ferromanganiferous, Medium (2 -6 mm), Veins; Field pH 8 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Gradual change to -
B23	0.77 - 0.9 m	Brownish yellow (10YR6/6-Moist); Brownish yellow (10YR6/6-Dry); Substrate influence, 10-20% , Distinct; Medium clay; Strong grade of structure, 20-50 mm, Subangular blocky; 100-200 mm, Prismatic; Smooth-ped fabric; Dry; Weak consistence; Many cutans, >50% of ped faces or walls coated, distinct; Common (10 - 20 %), Ferromanganiferous, , ; Field pH 8 (Raupach);

Morphological Notes

Observation Notes

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Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar		
m		g/g - m3/m3						mm/h	mm/h
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.15	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.20	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.30	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.40	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.50	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.55	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.65	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.75	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.80	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.85	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.90	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.05	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.10	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.15	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.25	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.30	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.35	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.40	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.45	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.55	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.60	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.65	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.70	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.75	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.80	1.80	0.00	0.00						

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Laboratory Analyses Completed for this profile