

Project Name: Improving Soil Survey Field Measurement and Interpretation. LWRRDC Project No. 90/R16
Project Code: Morphology **Site ID:** CP317 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	N.J. McKenzie	Locality:	
Date Desc.:	02/08/92	Elevation:	No Data
Map Ref.:	Sheet No. : 9130Sydney	Rainfall:	No Data
Northing/Long.:	1:100000	Runoff:	
	6290000 AMG zone: 56		Slow
Easting/Lat.:	349100 Datum: AGD66	Drainage:	Well drained

Geology

Exposure Type:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Upper-slope	Relief:	No Data
Elem. Type:	No Data	Slope Category:	Gently inclined
Slope:	5 %	Aspect:	270 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Red Kandosol		Principal Profile Form:	Gn2.12
ASC Confidence:		Great Soil Group:	N/A

No analytical data are available but confidence is fair.

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - None recorded
Tall Strata - Tree, 20.01-35m, Mid-dense. *Species includes - Eucalyptus species

Surface Coarse Fragments: 0-2%, medium gravelly, 6-20mm, subangular, Ferricrete

Profile Morphology

A11	0 - 0.1 m	Dark reddish brown (5YR3/2-Moist); ; Loam; Weak grade of structure, 5-10 mm, Granular; Earthy fabric; Moderately moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, subangular, dispersed, Ferricrete, coarse fragments; Field pH 6.5 (Raupach); Many, coarse (>5mm) roots; Gradual, Smooth change to -
A12	0.1 - 0.2 m	Reddish brown (5YR4/3-Moist); Biological mixing, 5YR32, 20-50% , 5-15mm, Faint; Sandy loam; Weak grade of structure, 5-10 mm, Granular; Earthy fabric; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, subangular, dispersed, Ferricrete, coarse fragments; Field pH 6.5 (Raupach); Many, coarse (>5mm) roots; Gradual, Smooth change to -
A3	0.2 - 0.3 m	Reddish brown (5YR4/3-Moist); Biological mixing, 5YR56, 20-50% , 5-15mm, Distinct; , 5YR32, 20-50% , 5-15mm, Distinct; Loam; Weak grade of structure, 5-10 mm, Granular; Earthy fabric; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, subangular, dispersed, Ferricrete, coarse fragments; Field pH 6.5 (Raupach); Common, fine (1-2mm) roots; Gradual, Smooth change to -
B1	0.3 - 0.4 m	Red (2.5YR4/6-Moist); Biological mixing, 5YR42, 20-50% , 15-30mm, Distinct; Sandy clay loam; Massive grade of structure; Earthy fabric; Moderately moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, dispersed, Ferricrete, coarse fragments; Field pH 6.5 (Raupach); Common, fine (1-2mm) roots; Gradual, Smooth change to -
B21	0.4 - 0.5 m	Red (2.5YR4/6-Moist); Biological mixing, 5YR42, 10-20% , 15-30mm, Distinct; Sandy clay loam; Massive grade of structure; Earthy fabric; Moderately moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, dispersed, Ferricrete, coarse fragments; Field pH 6.5 (Raupach); Few, fine (1-2mm) roots; Gradual, Smooth change to -
B22	0.5 - 0.6 m	Red (2.5YR4/6-Moist); Mottles, 7.5YR56, 2-10% , 15-30mm, Distinct; Clay loam, sandy; Massive grade of structure; Earthy fabric; Moderately moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, dispersed, Ferricrete, coarse fragments; Field pH 7 (Raupach); Few, fine (1-2mm) roots;
B22	0.6 - 0.75 m	Red (2.5YR4/6-Moist); Mottles, 7.5YR56, 2-10% , 15-30mm, Distinct; Clay loam, sandy; Massive grade of structure; Earthy fabric; Moderately moist; Firm consistence; 10-20%, coarse gravelly, 20-60mm, subangular, dispersed, Ferricrete, coarse fragments; Field pH 7 (Raupach); Few, fine (1-2mm) roots; Abrupt, Smooth change to -

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B23 0.75 - m ;

Morphological Notes

Observation Notes

Site Notes

Boudi Nursery (Morph16)

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Laboratory Test Results:

Depth **COLE** **Gravimetric/Volumetric Water Contents** **K sat** **K unsat**

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Laboratory Analyses Completed for this profile

15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_CEC	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A1	Chloride - 1:5 soil/water extract, potentiometric titration
6B2	Total organic carbon - high frequency induction furnace, volumetric
P10_GRAV	Gravel (%)
P10_S_0.20	0.20 micron (cumulative %) - Sedigraph
P10_S_1000	1000 micron (cumulative %) - Sedigraph
P10_S_125	125 micron (cumulative %) - Sedigraph
P10_S_2	2 micron (cumulative %) - Sedigraph
P10_S_20	20 micron (cumulative %) - Sedigraph
P10_S_2000	2000 micron (cumulative %) - Sedigraph
P10_S_250	250 micron (cumulative %) - Sedigraph
P10_S_31.2	31.2 micron (cumulative %) - Sedigraph
P10_S_500	500 micron (cumulative %) - Sedigraph
P10_S_63	63 micron (cumulative %) - Sedigraph
P3A1	Bulk density - g/cm ³
P3B2VL_15	15 BAR Moisture m ³ /m ³ - Volumetric using disturbed sample on pressure plate
P3B2VL_5	5 BAR Moisture m ³ /m ³ - Volumetric using disturbed sample on pressure plate
P3B3VLb001	0.01 BAR Moisture m ³ /m ³ - Volumetric using undisturbed 73mm diameter and 75mm height core on suction plate taken from center of large core (CSIRO Div of Soil, DR 125, McKenzie and Jacquier, 1996)
P3B3VLb003	0.03 BAR Moisture m ³ /m ³ - Volumetric using undisturbed 73mm diameter and 75mm height core on suction plate taken from center of large core (CSIRO Div of Soil, DR 125, McKenzie and Jacquier, 1996)
P3B3VLb005	0.05 BAR Moisture m ³ /m ³ - Volumetric using undisturbed 73mm diameter and 75mm height core on suction plate taken from center of large core (CSIRO Div of Soil, DR 125, McKenzie and Jacquier, 1996)
P3B3VLb01	0.1 BAR Moisture m ³ /m ³ - Volumetric using undisturbed 73mm diameter and 75mm height core on suction plate taken from center of large core (CSIRO Div of Soil, DR 125, McKenzie and Jacquier, 1996)
P3B3VLb05	0.5 BAR Moisture m ³ /m ³ - Volumetric using undisturbed 73mm diameter and 75mm height core on suction plate taken from center of large core (CSIRO Div of Soil, DR 125, McKenzie and Jacquier, 1996)
P3B3VLbSAT	Saturated Moisture m ³ /m ³ - Volumetric using undisturbed 73mm diameter and 75mm height core on suction plate taken from center of large core (CSIRO Div of Soil, DR 125, McKenzie and Jacquier, 1996)
P4_50_McK	Unsaturated Hydraulic Conductivity - 50mm potential (CSIRO Div of Soil, DR 125, McKenzie and Jacquier, 1996)
P4_sat_McK	Saturated Hydraulic Conductivity (CSIRO Div of Soil, DR 125, McKenzie and Jacquier, 1996)
P5_LS_MOD	Modified linear shrinkage (McKenzie, Jacquier and Ringrose-Voase, AJSR, 1994, 32, 931-8)