

Project Name: NAR
Project Code: NAR **Site ID:** B722 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	10/05/71	Elevation:	240 metres
Map Ref.:	Sheet No. : 9046 1:100000	Rainfall:	716
Northing/Long.:	150.902777777778	Runoff:	No Data
Easting/Lat.:	-25.704166666667	Drainage:	No Data

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	PRT	Substrate Material:	Auger boring, 2 m deep, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	No Data
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Footslope	Slope Category:	No Data
Slope:	4.4 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Vertic Subnatric Yellow Sodosol		Principal Profile Form:	Dy2.83
ASC Confidence:		Great Soil Group:	Solodic soil
All necessary analytical data are available.			

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, , . *Species includes - Heteropogon contortus, Eragrostis parviflora
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Loamy coarse sand; Massive grade of structure; Dry; Weak consistence; 2-10%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6.8 (pH meter); Many, very fine (0-1mm) roots; Clear change to -
A21	0.1 - 0.3 m	Greyish brown (10YR5/2-Moist); ; Clayey coarse sand; Massive grade of structure; Dry; Very weak consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6.8 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
A22	0.3 - 0.56 m	Light brownish grey (10YR6/2-Moist); ; Clayey coarse sand; Massive grade of structure; Dry; Very weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6.9 (pH meter); Few, very fine (0-1mm) roots; Abrupt change to -
B21	0.56 - 0.9 m	Light yellowish brown (2.5Y6/4-Moist); , 10YR42; Medium clay; Massive grade of structure; Moist; Very firm consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 8 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B22	0.9 - 1.2 m	Light olive brown (2.5Y5/4-Moist); , 10YR30; Medium heavy clay; Weak grade of structure, 20-50 mm, Lenticular; Moist; Firm consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 8.8 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B23	1.2 - 1.5 m	Greyish brown (2.5Y5/3-Moist); , 10YR56, 10-20% , 0-5mm, Distinct; , 2.5Y63, 10-20% , 0-5mm, Distinct; Medium clay; Weak grade of structure, 20-50 mm, Lenticular; Moderately moist; Very firm consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Field pH 8.5 (pH meter); Gradual change to -
B3	1.5 - 2.1 m	Light olive brown (2.5Y5/4-Moist); , 10YR55, 10-20% , 0-5mm, Distinct; , 10YR62, 10-20% , 0-5mm, Distinct; Light clay; Massive grade of structure; Moderately moist; Very firm consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Field pH 8.5 (pH meter);

Morphological Notes

Observation Notes

MODERATE SPECKLING OF WEATHERING MINERALS BELOW 120CM. GRAVELS DOMINANTLY FELDSPAR WITH QURTZ.

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Site Notes

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Laboratory Test Results:

0 - 0.1	6.6H	0.01B	3.4K	1.1	0.23	0.08	1.1D
0.1 - 0.3							
0.3 - 0.56							
0.56 - 0.9	7.4H	0.05B	5.4K	8.9	0.3	1.8	1D
0.9 - 1.2							
1.2 - 1.5							
1.5 - 2.1							

[illegible]

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.1										
0.1 - 0.3										
0.3 - 0.56										
0.56 - 0.9										
0.9 - 1.2										
1.2 - 1.5										
1.5 - 2.1										

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Laboratory Analyses Completed for this profile

10A_NR	Total element - S(%) - Not recorded
15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - 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
17A_NR	Total element - K(%) - Not recorded
2A1	Air-dry moisture content
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
P10_GRAV	Gravel (%)
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded