

Project Name: NAR
Project Code: NAR **Site ID:** B725 **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, 1 m deep,Adamellite

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	No Data
Morph. Type:	Upper-slope	Relief:	No Data
Elem. Type:	Hillslope	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
Eutrophic Mottled-Mesonatric Brown Sodosol		Principal Profile Form:	Dy3.42
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
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); ; Sandy loam; Massive grade of structure; Dry; Firm consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6 (pH meter); Many, very fine (0-1mm) roots; Gradual change to -
A2	0.1 - 0.34 m	Pale brown (10YR6/3-Moist); ; Coarse sand; Massive grade of structure; Dry; Weak consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6.5 (pH meter); Common, very fine (0-1mm) roots; Abrupt change to -
B21	0.34 - 0.7 m	Strong brown (7.5YR5/6-Moist); , 10YR52, 10-20% , 0-5mm, Distinct; , 10YR63, 10-20% , 0-5mm, Distinct; Sandy medium clay; Weak grade of structure, 20-50 mm, Prismatic; , Angular blocky; Dry; Very firm consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B22	0.7 - 1 m	Strong brown (7.5YR5/8-Moist); , 7.5YR66, 20-50% , 5-15mm, Distinct; , 10YR62, 20-50% , 5-15mm, Distinct; Light clay; Weak grade of structure, 20-50 mm, Polyhedral; Dry; Strong consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 8 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
D	1 - 1.2 m	Pale yellow (2.5Y7/3-Moist); , 10YR62, 20-50% , 5-15mm, Distinct; , 10YR66, 20-50% , 5-15mm, Distinct; Medium clay; Weak grade of structure, 20-50 mm, Polyhedral; Dry; Very firm consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 7.5 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
D	1.2 - 2 m	Strong brown (7.5YR5/6-Moist); , 10YR62, 20-50% , 15-30mm, Prominent; , 2.5Y83, 20-50% , 15-30mm, Prominent; Coarse sandy clay loam; Massive grade of structure; Moderately moist; Firm consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6.5 (pH meter);

Morphological Notes

Observation Notes

ADAMELLITE FINE GRAINED DIFFERENTIATE. STRONG WEATHERING MINERAL SPECKLING BELOW 80CM. GRAVELS VARYING FELDSPAR AND QUARTZ DOMINANT.

Site Notes

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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	5.8H	<0.01B	1.9K	0.7	0.021	0.02	2.6D			
0.1 - 0.34										
0.34 - 0.7	6.7H	0.02B	3.3K	10.6	0.26	2.8	2.5D			
0.7 - 1										
1 - 1.2										
1.2 - 2										

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		

0 - 0.1		1.16A	8B	160F	0.06B	3.7B		13	65C	24	6	4
0.1 - 0.34												
0.34 - 0.7				160F		2.8B		4	41C	15	7	39
0.7 - 1												
1 - 1.2												
1.2 - 2												

Depth	COLE	Sat.	Gravimetric/Volumetric Water Contents	K sat	K unsat
m			0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar	mm/h	mm/h
			g/g - m3/m3		

0 - 0.1					
0.1 - 0.34					
0.34 - 0.7					
0.7 - 1					
1 - 1.2					
1.2 - 2					

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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