NAR **Project Name:**

Project Code: NAR Site ID: **B769** Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

G.D. Hubble Locality:

Desc. By: Date Desc.: Elevation: 12/05/71 230 metres Sheet No.: 9046 1:100000 Map Ref.: Rainfall: 716 Northing/Long.: 150.90277777778 Runoff: No Data Easting/Lat.: -25.7041666666667 Drainage: No Data

Geology

ExposureType: Conf. Sub. is Parent. Mat.: Auger boring No Data

Geol. Ref.: **Substrate Material:** Auger boring, Unconsolidated material PŘt

(unidentified)

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10% Pattern Type: No Data No Data Morph. Type: Mid-slope Relief: Elem. Type: Hillslope Slope Category: No Data Aspect: 7 % No Data Slope:

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Uc4.11 Basic Regolithic Orthic Tenosol **Principal Profile Form: ASC Confidence: Great Soil Group:** Siliceous sand

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 - 0.2 m	Brown (10YR4/3-Moist); ; Loamy coarse sand; Massive grade of structure; Moist; Very weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6.3 (pH meter); Common, very fine (0-1mm) roots; Clear change to -
A21	0.2 - 0.4 m	Yellowish brown (10YR5/4-Moist); ; Coarse sand; Massive grade of structure; Moist; Very weak 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 -
A22	0.4 - 0.8 m	Brown (7.5YR5/4-Moist); Light brown (7.5YR6/4-Dry); ; Coarse sand; Massive grade of structure; Dry; Very weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots; Clear change to -
В	0.8 - 1.1 m	Strong brown (7.5YR5/5-Moist); , 7.5YR44, 2-10% , 5-15mm, Faint; , 2-10% , 5-15mm, Faint; Coarse sandy loam; Weak grade of structure, 2-5 mm, Polyhedral; Moist; Firm consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6.7 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
С	1.1 - 1.4 m	Strong brown (7.5YR5/5-Moist); , 10YR82, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Clayey coarse sand; Massive grade of structure; Moist; Weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 7.1 (pH meter); Gradual change to -
С	1.4 - 1.5 m	Reddish yellow (5YR7/6-Moist); , 2.5Y52, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Sandy clay loam; Massive grade of structure; Moist; Firm consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 7.8 (pH meter);

Morphological Notes

Observation Notes

SUBSTRATE COLLUVIUM FROM ADAMELLITE. 80-110 CM FEW BANDS OF SANDY CLAY LOAM MATERIAL. 80-150 SLIGHT INCREASING TO STRONGWEATHERING MINERAL SPECKLING. LAYERS RENUMBERED 5-10-92

Site Notes

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Laboratory Test Results:

pН	1:5 EC						CEC	E	CEC	ı	ESP
	dS/m	oa i	wig	K							%
6.5H	<0.01B	3.6K	1	0.28	0.04	2D					
7.2H	<0.01B	3.1K	1.8	0.16	0.07	1.4D					
CaCO3	Organic	Avail.	Total	Total N	Total K	Bulk Density					
%	%	mg/kg	%	%	%	Mg/m3	0,	00	%	Siit	Ciay
	1.15A	33B	320F	0.04	5B 3B		12	68C	21	6	3
			490F		3.3B		33	59C	26	9	8
COLE		Grav	imetric/Vo	lumetric W	later Conte	nts		K sat		K unsa	t
-	Sat.		0.1 Bar	0.5 Bar	1 Bar		Bar			mm/h	
	6.5H 7.2H CaCO3	dS/m 6.5H <0.01B 7.2H <0.01B CaCO3 Organic C % 1.15A	Ca dS/m 6.5H <0.01B 3.6K 7.2H <0.01B 3.1K CaCO3 Organic Avail.	Ca Mg dS/m 6.5H <0.01B 3.6K 1 7.2H <0.01B 3.1K 1.8 CaCO3 Organic Avail. Total C P P W mg/kg % 1.15A 33B 320F 490F COLE Gravimetric/Vol Sat. 0.05 Bar 0.1 Bar	Ca Mg K dS/m 6.5H <0.01B 3.6K 1 0.28 7.2H <0.01B 3.1K 1.8 0.16 CaCO3 Organic Avail. Total Total P P N N % mg/kg % % 1.15A 33B 320F 0.04 490F COLE Gravimetric/Volumetric W Sat. 0.05 Bar 0.1 Bar 0.5 Bar	Ca Mg K Na Cmol (+)/k 6.5H <0.01B 3.6K 1 0.28 0.04 7.2H <0.01B 3.1K 1.8 0.16 0.07 CaCO3 Organic Avail. Total Total Total K Ma Cmol (+)/k % % mg/kg % % % 1.15A 33B 320F 0.045B 3B 490F 3.3B	Ca Mg K Na Acidity Cmol (+)/kg 6.5H <0.01B 3.6K 1 0.28 0.04 2D 7.2H <0.01B 3.1K 1.8 0.16 0.07 1.4D CaCO3 Organic Avail. Total Total Bulk Density % Mg/m3 1.15A 33B 320F 0.045B 3B COLE Gravimetric/Volumetric Water Contents Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15	Ca Mg K Na Acidity Cmol (+)/kg 6.5H <0.01B 3.6K 1 0.28 0.04 2D 7.2H <0.01B 3.1K 1.8 0.16 0.07 1.4D CaCO3 Organic Avail. Total Total Bulk Pa C P P N K Density GV % mg/kg % % Mg/m3 1.15A 33B 320F 0.045B 3B 12 490F 3.3B 33 COLE Gravimetric/Volumetric Water Contents Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar	Ca Mg K Na Acidity Cmol (+)/kg 6.5H <0.01B 3.6K 1 0.28 0.04 2D 7.2H <0.01B 3.1K 1.8 0.16 0.07 1.4D CaCO3 Organic Avail. Total Total Bulk Particle S G P P N K Density GV CS Mg/m3 1.15A 33B 320F 0.045B 3B 12 68C 490F 3.3B 33 59C COLE Gravimetric/Volumetric Water Contents K sat Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar	Ca Mg K Na Acidity Cmol (+)/kg 6.5H <0.01B 3.6K 1 0.28 0.04 2D 7.2H <0.01B 3.1K 1.8 0.16 0.07 1.4D CaCO3 Organic Avail. Total Total Bulk Particle Size A C P P N K Density GV CS FS % mg/kg % % Mg/m3 % 1.15A 33B 320F 0.045B 3B 12 68C 21 490F 3.3B 33 59C 26 COLE Gravimetric/Volumetric Water Contents K sat Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar	Ca Mg K Na Acidity Cmol (+)/kg 6.5H <0.01B 3.6K 1 0.28 0.04 2D 7.2H <0.01B 3.1K 1.8 0.16 0.07 1.4D CaCO3 Organic Avail. Total Total Bulk Particle Size Analysis C P P N K Density GV CS FS Silt % Mg/m3 V CS FS Silt % 1.15A 33B 320F 0.045B 3B 12 68C 21 6 490F 3.3B 33 59C 26 9 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

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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
15_NR_MG
15_NR_NA
Exch. basic cations (K++) - meq per 100g of soil - Not recorded
Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
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 recordede

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