

**Project Name:** NAR  
**Project Code:** NAR      **Site ID:** B767      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

#### Site Information

<b>Desc. By:</b>	G.D. Hubble	<b>Locality:</b>	
<b>Date Desc.:</b>	12/05/71	<b>Elevation:</b>	230 metres
<b>Map Ref.:</b>	Sheet No. : 9046 1:100000	<b>Rainfall:</b>	716
<b>Northing/Long.:</b>	150.902777777778	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-25.704166666667	<b>Drainage:</b>	No Data

#### Geology

<b>ExposureType:</b>	Auger boring	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	PRt	<b>Substrate Material:</b>	Auger boring, 1 m deep, Adamellite

#### Land Form

<b>Rel/Slope Class:</b>	Undulating rises 9-30m 3-10%	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	3.5 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Hardsetting

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	Eutrophic Mottled-Subnatic Brown Sodosol	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	All necessary analytical data are available.	<b>Principal Profile Form:</b>	Dy3.43
		<b>Great Soil Group:</b>	Solodic soil

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

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

#### Surface Coarse Fragments:

#### Profile Morphology

A1	0 - 0.2 m	Dark greyish brown (10YR4/2-Moist); ; Loamy coarse sand; Weak grade of structure, 2-5 mm, Polyhedral; Moist; Weak consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6.1 (pH meter); Common, very fine (0-1mm) roots; Clear change to -
A21	0.2 - 0.3 m	Greyish brown (10YR5/2-Moist); ; Clayey coarse sand; Massive grade of structure; Moist; Very weak consistence; 20-50%, coarse gravelly, 20-60mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Field pH 6.2 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
A22	0.3 - 0.45 m	Pale brown (10YR6/3-Moist); Very pale brown (10YR8/3-Dry); ; Coarse sand; Massive grade of structure; Moist; Very weak consistence; 20-50%, coarse gravelly, 20-60mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Field pH 6.3 (pH meter); Few, very fine (0-1mm) roots; Abrupt change to -
B21	0.45 - 0.7 m	Strong brown (7.5YR5/8-Moist); , 10YR62, 20-50% , 5-15mm, Distinct; , 10YR41, 20-50% , 5-15mm, Distinct; Heavy clay; Moderate grade of structure, 10-20 mm, Polyhedral; Moist; Strong consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 7.5 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
B22	0.7 - 0.8 m	Yellowish brown (10YR5/6-Moist); , 10YR62, 20-50% , 5-15mm, Distinct; , 10YR51, 20-50% , 5-15mm, Distinct; Medium clay; Weak grade of structure, 20-50 mm, Polyhedral; Dry; Strong consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 8.2 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B31	0.8 - 0.9 m	Strong brown (7.5YR5/6-Moist); , 10YR56, 20-50% , 5-15mm, Distinct; , 10YR52, 20-50% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Moist; Very firm consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B32	0.9 - 1 m	Strong brown (7.5YR5/6-Moist); , 10YR52, 20-50% , 0-5mm, Distinct; , 10YR82, 20-50% , 0-5mm, Distinct; Light medium clay; Weak grade of structure, 10-20 mm, Polyhedral; Moist; Very firm consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 8.7 (pH meter); Gradual change to -

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C      1 - 1.5 m      Strong brown (7.5YR5/6-Moist); , 10YR52, 20-50% , 0-5mm, Distinct; , 10YR82, 20-50% , 0-5mm, Distinct; Coarse sandy loam; Massive grade of structure; Moist; Very firm consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 8.7 (pH meter);

**Morphological Notes**

**Observation Notes**

BELOW 45 CM LIGHT INCREASING TO STRONG WEATHERING MINERAL SPECKLING, W HITE (10YR8/2). GRAVELS DOMINANTLY FELDSPAR.      LAYERS RENUMBERED 5-10-92

**Site Notes**

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable	Cations	Na	Exchangeable	CEC	ECEC	ESP
m		dS/m		Mg	K	Cmol (+)/kg	Acidity			%

0 - 0.2	5.8H	<0.01B	2.4K	1	0.32	0.04	3.9D			
0.2 - 0.3										
0.3 - 0.45										
0.45 - 0.7	7.9H	0.03B	3K	7.3	0.19	1	1.4D			
0.7 - 0.8										
0.8 - 0.9										
0.9 - 1										
1 - 1.5										

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

0 - 0.2		1.31A	13B	190F	0.084B	3.7B		13	50C	35	8	7
0.2 - 0.3												
0.3 - 0.45												
0.45 - 0.7				90F		2.9B		23	42C	20	6	34
0.7 - 0.8												
0.8 - 0.9												
0.9 - 1												
1 - 1.5												

Depth	COLE	Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	K sat	K unsat
m									mm/h	mm/h

0 - 0.2	
0.2 - 0.3	
0.3 - 0.45	
0.45 - 0.7	
0.7 - 0.8	
0.8 - 0.9	
0.9 - 1	
1 - 1.5	

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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