

**Project Name:** NAR  
**Project Code:** NAR      **Site ID:** B761      **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>	240 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, Adamellite

#### Land Form

<b>Rel/Slope Class:</b>	Undulating rises 9-30m 3-10%	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	2.6 %	<b>Aspect:</b>	No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Bleached-Mottled Magnesic-Natric Grey Kurosol		<b>Principal Profile Form:</b>	Dy3.41
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Yellow podzolic 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, Mid-dense. \*Species includes - Eucalyptus crebra

#### Surface Coarse Fragments:

#### Profile Morphology

A1	0 - 0.2 m	Dark greyish brown (10YR4/2-Moist); ; Loamy coarse sand; Massive grade of structure; Dry; Weak consistence; 10-20%, 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	Pale brown (10YR6/3-Moist); Very pale brown (10YR7/3-Dry); ; Clayey coarse sand; Massive grade of structure; Dry; Weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
A22	0.4 - 0.54 m	Very pale brown (10YR7/3-Moist); Very pale brown (10YR8/3-Dry); ; Clayey coarse sand; Massive grade of structure; Dry; Weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 5.8 (pH meter); Few, very fine (0-1mm) roots; Abrupt change to -
B2	0.54 - 0.7 m	Light brownish grey (10YR6/2-Moist); , 5YR58, 10-20% , 5-15mm, Distinct; , 7.5YR58, 10-20% , 5-15mm, Distinct; Sandy medium clay (Heavy); Moderate grade of structure, 5-10 mm, Polyhedral; Moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 5.4 (pH meter); Few, very fine (0-1mm) roots; Clear change to -
B3	0.7 - 0.8 m	Pale brown (10YR6/3-Moist); , 5YR46, 10-20% , 5-15mm, Distinct; , 7.5YR86, 10-20% , 5-15mm, Distinct; Light medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Moist; Firm consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 5.3 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
C	0.8 - 1 m	Pale brown (10YR6/3-Moist); , 10YR65, 20-50% , 0-5mm, Prominent; , 5YR56, 20-50% , 0-5mm, Prominent; Sandy clay loam (Light); Massive grade of structure; Moist; Firm consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 4.9 (pH meter);

#### Morphological Notes

#### Observation Notes

SUBSTRATE ALTERED. BELOW 60 CM MODERATE INCREASING TO STRONG WEATHERED MINERAL SPECKLING, WHITE AND PALE YELLOW. BELOW 60CM CONSPICUOUS MICAS INCREASING. GRAVEL DOMINANTLY FELDSPAR.

#### 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	1.8K	1	0.3	0.05	4.2D			
0.2 - 0.4										
0.4 - 0.54										
0.54 - 0.7	5.2H	0.05B	0.04K	10.6	0.31	2.2	9.8D			
0.7 - 0.8										
0.8 - 1										

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		1.28A	9B	150F	0.074B	4.4B		16	56C	28	6	8
0.2 - 0.4												
0.4 - 0.54												
0.54 - 0.7				260F		2.7B		9	33C	17	8	43
0.7 - 0.8												
0.8 - 1												

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

0 - 0.2
0.2 - 0.4
0.4 - 0.54
0.54 - 0.7
0.7 - 0.8
0.8 - 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