

**Project Name:** NAR  
**Project Code:** NAR      **Site ID:** B749      **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>	11/05/71	<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, 1.4 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>	Upper-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	2.9 %	<b>Aspect:</b>	No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Eutrophic Mottled-Subnatric Yellow Sodosol		<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, Sparse. \*Species includes - None Recorded

#### Surface Coarse Fragments:

#### Profile Morphology

A1	0 - 0.2 m	Brown (7.5YR4/2-Moist); ; Loamy sand; Massive grade of structure; Moist; Very weak consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 5.3 (pH meter); Common, very fine (0-1mm) roots; Clear change to -
A21	0.2 - 0.3 m	Dark brown (7.5YR3/3-Moist); ; Clayey coarse sand; Massive grade of structure; Dry; Very weak consistence; 20-50%, coarse gravelly, 20-60mm, angular, Gravel, coarse fragments; Field pH 5.3 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
A22	0.3 - 0.56 m	Light yellowish brown (10YR6/4-Moist); Very pale brown (10YR7/3-Dry); ; Clayey coarse sand; Moderate grade of structure; Dry; 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 5.3 (pH meter); Few, very fine (0-1mm) roots; Abrupt change to -
B2	0.56 - 0.8 m	Brownish yellow (10YR6/6-Moist); , 10YR72, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Light medium clay; Weak grade of structure, 10-20 mm, Polyhedral; Moderately moist; Very firm consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B3	0.8 - 1.1 m	Brownish yellow (10YR6/6-Moist); , 10YR64, 0-2% , 5-15mm, Faint; , 0-2% , 5-15mm, Faint; Sandy medium clay (Light); Massive grade of structure, 10-20 mm, Polyhedral; Moderately moist; Very firm consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 5.3 (pH meter); Diffuse change to -
C	1.1 - 1.4 m	Very pale brown (10YR7/4-Moist); , 5YR63, 20-50% , 0-5mm, Prominent; , 5BG41, 20-50% , 0-5mm, Prominent; Clayey coarse sand; Moist; Weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 5.5 (pH meter);

#### Morphological Notes

#### Observation Notes

60-110CM FEW INCREASING TO MODERATE SPECKLING OF WEATHERING MINERALS, 110-140 VERY STRONG. GRAVELS FELDSPAR DOMINANT IN 0-56 AND 110-140 LAYERS.

#### 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	5.6H	0.01B	1.2K	0.58	0.13	0	3.3D			
0.2 - 0.3										
0.3 - 0.56										
0.56 - 0.8	5.6H	0.03B	0.82K	6.8	0.15	0.94	5.7D			
0.8 - 1.1										
1.1 - 1.4										

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		0.88A	70B	190F	0.048B	4.3B		17	73C	17	6	5
0.2 - 0.3												
0.3 - 0.56												
0.56 - 0.8				130F		3.7B		17	49C	16	6	33
0.8 - 1.1												
1.1 - 1.4												

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 - 0.3
0.3 - 0.56
0.56 - 0.8
0.8 - 1.1
1.1 - 1.4

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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