Project Name: NAR

Project Code: NAR Site ID: B798 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

**Site Information** 

 Desc. By:
 G.D. Hubble
 Locality:
 Catchment 3.

 Date Desc.:
 20/09/72
 Elevation:
 226 metres

 Map Ref.:
 Sheet No.: 9046
 1:100000
 Rainfall:
 716

 Northing/Long.:
 150.904166666667
 Runoff:
 No Data

Easting/Lat.: -25.7

<u>Geology</u>

ExposureType: Undisturbed soil core Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: PRt Substrate Material: Undisturbed soil core, 1 m

Drainage:

No Data

deep,Unconsolidated material

**Land Form** 

Rel/Slope Class:Undulating rises 9-30m 3-10%Pattern Type:RisesMorph. Type:Lower-slopeRelief:30 metresElem. Type:FootslopeSlope Category:No DataSlope:0 %Aspect:No Data

Surface Soil Condition (dry): Hardsetting

**Erosion:** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/ABleached-Sodic Eutrophic Brown ChromosolPrincipal Profile Form:Dy3.42

ASC Confidence: Great Soil Group: Solodized solonetz

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, Aristida species

Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - None Recorded

## **Surface Coarse Fragments:**

Profile	e Morphology	<del>,</del>
A11	0 - 0.05 m	Very dark brown (10YR2/2-Moist); ; Coarse sandy loam; Massive grade of structure; Dry; Firm consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Many, very fine (0-1mm) roots; Clear change to -
A12	0.05 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Loamy coarse sand; Massive grade of structure; Dry; Firm consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Many, very fine (0-1mm) roots; Clear change to -
A2	0.1 - 0.2 m	Greyish brown (10YR5/2-Moist); ; Coarse sand; Massive grade of structure; Dry; Firm consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Many, very fine (0-1mm) roots; Gradual change to -
A2	0.2 - 0.3 m	Light brownish grey (10YR6/2-Moist); ; Coarse sand; Massive grade of structure; Dry; Weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Many, very fine (0-1mm) roots; Gradual change to -
A2	0.3 - 0.34 m	Light brownish grey (10YR6/2-Moist); Light grey (10YR7/2-Dry); ; Coarse sand; Massive grade of structure; Dry; Weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots; Sharp change to -
B21	0.34 - 0.47 m	Yellowish brown (10YR5/4-Moist); , 7.5YR56, 10-20% , 15-30mm, Distinct; , 10-20% , 15-30mm, Distinct; Medium clay; Strong grade of structure, 100-200 mm, Columnar; Moderate grade of structure, 10-20 mm, Polyhedral; Dry; Strong consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots;
B21	0.47 - 0.6 m	Greyish brown (2.5Y5/3-Moist); , 7.5YR58, 20-50% , 15-30mm, Distinct; , 20-50% , 15-30mm, Distinct; Medium clay; Strong grade of structure, 100-200 mm, Columnar; Moderate grade of structure, 10-20 mm, Polyhedral; Dry; Strong consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots; Diffuse change to -
B22	0.6 - 0.76 m	Greyish brown (10YR5/2-Moist); , 7.5YR58, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm,

Prominent; Light medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Few, very fine (0-1mm) roots;

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B22 0.76 - 0.9 m Greyish brown (10YR5/2-Moist); , 7.5YR56, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm,

Prominent; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Very few (0 - 2

%), Manganiferous, Medium (2 -6 mm), Nodules; Diffuse change to -

B3 0.9 - 1.02 m Brown (10YR5/3-Moist); , 7.5YR56, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm,

Prominent; Light clay; Weak grade of structure, 50-100 mm, Angular blocky; Dry; Strong consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few (2 - 10 %),

Manganiferous, Medium (2 -6 mm), Nodules;

C 1.02 - 1.2 m Strong brown (7.5YR5/6-Moist); , 2.5Y62, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm,

Distinct; Coarse sandy clay loam; Massive grade of structure; Dry; Very firm consistence; 20-

50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Few (2 - 10 %),

Manganiferous, Coarse (6 - 20 mm), Nodules;

# **Morphological Notes**

## **Observation Notes**

PARENT MATERIAL COLLUVIUM FROM ADAMELLITE. GRAVELS BOTH QUARTZ AND FELDSPAR. SOME SAND FILLED FISSUES BETWEEN COLUMNS EXTEND TO 90CM. B HORIZON PEDS HAVE 10YR4/2 STAINED FACES. LAYERS RENUMBERED 6-10-92

# **Site Notes**

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Project Name: Project Code: Agency Name:

Laboratory Test Results:													
Depth	pН	1:5 EC	Exc Ca	changeable Mg	Cations K	Na		angeabl	e CEC	E	CEC	I	ESP
m	m		Ou .	.mg		Cmol (+)/kg		,				%	
0 - 0.05	5.6H	<0.03A	2.4K	0.82	0.21	0.05		3.5D					
0.05 - 0.1 0.1 - 0.2	5.8H 6H	<0.03A <0.03A		0.64	0.06	0.03		0D					
0.2 - 0.3 0.3 - 0.34	6.3H 6.3H	<0.03A <0.03A		0.46	0.02	0.05		0D					
0.34 - 0.47 0.47 - 0.6	6.3H 6.4H	0.038A 0.041A	5.4K	7.9	0.38	0.74	3.1D						
0.6 - 0.76 0.76 - 0.9	6.6H 7.1H	0.057 <i>A</i> 0.074 <i>A</i>											
0.9 - 1.02 1.02 - 1.2	7.4H	0.104 <i>A</i>	4.5K	7.1	0.35	0.95		0D					
Depth	CaCO3	Organic	Avail.	Total	Total	Tota	.1	Bulk	Do	rticle S	tizo A	nalysis	
рерш		C	Р	Р	N	K	u	Density			FS A	Silt	
m	%	%	mg/kg	%	%	%		Mg/m3			%		
0 - 0.05		1.37A	34B		0.09		12B	1.40	14	70C	15	9	6
0.05 - 0.1 0.1 - 0.2		0.35A 0.2A	7B 7B	120F	0.02 0.01		52B	1.50 1.50	14 19	71C 74C	20 19	5 5	3 2
0.2 - 0.3		0.14A	7B		0.01			1.60	25	79C	14	4	2
0.3 - 0.34		0.15A			0.01			1.00	26	74C	18	3	3
0.34 - 0.47		0.21A	16B	220F	0.02		92B		35	42C	17	3	38
0.47 - 0.6 0.6 - 0.76		0.12A	14B		0.01	8B			29 27	43C 47C	18 17	5 5	34 31
0.76 - 0.9			140					1.60	17	470	17	3	31
0.9 - 1.02				420F		2.6	32B		28	52C	17	8	25
1.02 - 1.2													
Depth	oth COLE Gravimetric/Volumetric Water Contents							S		K sat	ŀ	K unsa	t
m		Sat.	0.05 Bar	0.1 Bar	0.5 Bar g - m3/m3	1 Bar	5	Bar	15 Bar	mm/h		mm/h	
				9.									
0 - 0.05													
0.05 - 0.1 0.1 - 0.2													
0.2 - 0.3													
0.3 - 0.34													
0.34 - 0.47													
0.47 - 0.6													
0.6 - 0.76 0.76 - 0.9													
0.76 - 0.9													
1.02 - 1.2													

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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
15\_NR\_MG
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 3A1 EC of 1:5 soil/water extract 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
P3A\_NR Bulk density - Not recorded