NAR **Project Name:** 

**Project Code:** NAR Site ID: **B579** Observation ID: 1

**Agency Name: CSIRO Division of Soils (QLD)** 

**Site Information** 

Desc. By: Date Desc.: G.D. Hubble Locality: Narayen Research Station.

Elevation: 290 metres 14/08/69

Sheet No.: 9046 1:100000 Map Ref.: Rainfall: 712 Northing/Long.: 150.8833333333333 Runoff: Moderately rapid Easting/Lat.: -25.68333333333333 Drainage: Moderately well drained

Geology

ExposureType: Conf. Sub. is Parent. Mat.: No Data Soil pit

Geol. Ref.: PRt **Substrate Material:** Undisturbed soil core, 0.7 m

deep,Adamellite

**Land Form** 

Rel/Slope Class: Undulating rises 9-30m 3-10% Pattern Type: Low hills Morph. Type: Mid-slope Relief: 24 metres Elem. Type: Hillslope Slope Category: No Data Aspect: No Data Slope: 5.6 %

Surface Soil Condition (dry): Hardsetting

**Erosion:** 

**Soil Classification** 

**Australian Soil Classification: Mapping Unit:** N/A Bleached Eutrophic Brown Chromosol **Principal Profile Form:** Dy2.42

**ASC Confidence: Great Soil Group:** 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 - Aristida species

Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus crebra, Eucalyptus polycarpa

Surface Coarse Fragments: No surface coarse fragments

### **Profile Morphology**

A1	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); ; Coarse sandy loam (Light); Massive grade of structure; Dry; Weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 6.5 (pH meter); Common, fine (1-2mm) roots; Clear change to -
A21	0.05 - 0.1 m	Brown (10YR4/3-Moist); ; Loamy coarse sand; Massive grade of structure; Dry; Weak consistence; 20-50%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 6 (pH meter); Common, fine (1-2mm) roots; Clear change to -
A21	0.1 - 0.2 m	Brown (10YR4/3-Moist); ; Clayey coarse sand; Massive grade of structure; Dry; Weak consistence; 20-50%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 6 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
A22	0.2 - 0.3 m	Light yellowish brown (10YR6/4-Moist); ; Clayey coarse sand; Massive grade of structure; Dry; Very weak consistence; 20-50%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Field pH 6 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
A22	0.3 - 0.38 m	Light yellowish brown (10YR6/4-Moist); ; Clayey coarse sand; Massive grade of structure; Dry; Very weak consistence; 20-50%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Field pH 7 (pH meter); Few, fine (1-2mm) roots; Clear change to -
B1	0.38 - 0.4 m	Yellowish brown (10YR5/8-Moist); ; Coarse sandy clay loam; Weak grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; 20-50%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Field pH 7 (pH meter); Few, fine (1-2mm) roots; Sharp change to -
B2	0.4 - 0.6 m	Yellowish brown (10YR5/8-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Strong consistence; 20-50%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Field pH 7 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
В3	0.6 - 0.7 m	Yellowish brown (10YR5/8-Moist); , 10YR52, 20-50% , 0-5mm, Prominent; , 7.5YR58, 20-50% , 0-5mm, Prominent; Medium clay; Weak grade of structure, 20-50 mm; Moderately moist; Strong consistence; 20-50%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Field

pH 7 (pH meter); Few, fine (1-2mm) roots; Gradual change to -

NAR **Project Name:** 

**Project Code:** NAR Site ID: B579 Observation ID: 1

**Agency Name: CSIRO** Division of Soils (QLD)

0.7 - 0.9 m

Strong brown (7.5YR5/8-Moist); , 10YR52, 20-50% , 0-5mm, Prominent; , 20-50% , 0-5mm, Prominent; Coarse sandy medium clay; Massive grade of structure; Moderately moist; Strong consistence; 20-50%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Field

pH 7 (pH meter);

## **Morphological Notes**

## **Observation Notes**

2-6MM QUARTZ GRIT PRESENT THROUGHOUT:TEXTURES OF 20-40CM HORIZONS ARE GRAVELLY DOMINANT FELDSPAR TO 25MM:ALL OTHER TEXTURES ARE GRITTY, DOMINANTLY 2-6MM QUARTZ:

MUNDUBERRA

Project Name: Project Code: Agency Name: NAR

NAR Site ID: B57 CSIRO Division of Soils (QLD) B579 Observation ID: 1

# **Laboratory Test Results:**

Depth	рН	1:5 EC		changeable Cations				hangeable	CEC		ECEC	E	SP
m		dS/m	a	Mg	К	Na Cmol (+)		Acidity +)/kg				9	6
0 - 0.05	6.2H	0.02B	3.9K	1.8	0.54	0.09		3.6D					
0.05 - 0.1	5.7H	0.008B	0.95K	0.86	0.24	0.07		2.5D					
0.1 - 0.2	5.3H	0.008B											
0.2 - 0.3	5.5H	0.009B	0.61K	0.76	0.11	0.05		1.7D					
0.3 - 0.38	6.2H	0.01B											
0.38 - 0.4	6.4H	0.014B	3K	4.1	0.18	0.17		2D					
0.4 - 0.6	6.7H	0.014B	4.7K	7.1	0.25	0.5		2.8D					
0.6 - 0.7	6.7H	0.014B	5K	9.2	0.3	0.56		2.6D					
0.7 - 0.9	7.1H	0.02B											
Depth	CaCO3	Organic	Avail.	Total	Total	То	tal	Bulk	Da	rticle	Size	Analysis	
Бериі	04000	C	P	P	N		(	Density	GV .	CS	FS	Silt	Clav
m	%	%	mg/kg	%	%		6	Mg/m3	٠.		%	· · · ·	,
0 - 0.05		1.93E	23B	0.022F	0.11	1B :	3.2B		17	51C	31	7	7
0.05 - 0.1		0.53E	4B	0.013F	0.04	4B ;	3.2B		23	51C	33	7	7
0.1 - 0.2		0.36E		0.01F	0.0	3B :	3.2B		31	51C	36	6	7
0.2 - 0.3		0.21E	2B	0.007F	0.02	21B :	3.5B		40	59C	29	5	6
0.3 - 0.38		0.19E		0.011F	0.02	25B 3	3.6B		44	55C	28	8	8
0.38 - 0.4		0.35E		0.017F	0.04	4B :	3.2B		37	43C	24	8	25
0.4 - 0.6		0.39E	5B	0.02F	0.04	15B 2	2.4B		28	33C	20	9	40
0.6 - 0.7		0.43E		0.017F	0.04	ŀ9B 1	.95B		28	35C	17	10	37
0.7 - 0.9		0.2E		0.014F	0.02	25B 2	.05B		44	53C	18	7	25
Depth	COLE		Grav	rimetric/Vo	lumetric W	Vater C	ontent	ts		K sa	ıt	K unsat	
•	Depth 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												
m				g/g	g - m3/m3	3				mm/	'h	mm/h	

0 - 0.05 0.05 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.38 0.38 - 0.4 0.4 - 0.6 0.6 - 0.7 0.7 - 0.9

Project Name: NAR

Project Code: NAR Site ID: B579 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

### **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

3\_NR Electrical conductivity or soluble salts - Not recorded

4\_NR pH of soil - Not recorded

5\_NR Water soluble Chloride - Cl(%) - Not recordede

6Z Organic carbon (%) - Not recorded
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
P10\_NR\_CS
Clay (%) - Not recorded
Coarse sand (%) - Not recorded
P10\_NR\_FS
P10\_NR\_Z
Fine sand (%) - Not recorded
Silt (%) - Not recorded