DD **Project Name:**

Project Code: Site ID: B169 Observation ID: 1 DD

CSIRO Division of Soils (QLD) Agency Name:

Site Information

Desc. By: Date Desc.: G.D. Hubble Locality:

Elevation: 800 metres 12/07/52

Sheet No.: 9242 1:100000 Map Ref.: Rainfall: 914 Northing/Long.: 151.791666666667 Runoff: Moderately rapid Moderately well drained

Easting/Lat.: -27.6136111111111 Geology

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

Substrate Material: Geol. Ref.: Auger boring, 2.6 m deep, No Data Czb

Drainage:

Land Form

Rel/Slope Class: No Data Pattern Type: Plateau Morph. Type: Elem. Type: Crest Relief: 95 metres Summit surface **Slope Category:** No Data 0 % Aspect: No Data Slope:

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Snuffy Mesotrophic Red Ferrosol Principal Profile Form: Gn4.11 **ASC Confidence: Great Soil Group:** Red earth

Analytical data are incomplete but reasonable confidence.

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

Low Strata - Tussock grass, , . *Species includes - Bothriochloa species **Vegetation:**

Mid Strata - Shrub, , . *Species includes - None recorded

Tall Strata - Tree, , Mid-dense. *Species includes - Eucalyptus andrewsii, Eucalyptus propinqua

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

	3 Morphology	
A1	0 - 0.08 m	Dark reddish brown (5YR3/4-Moist); ; Loam; Massive grade of structure; Moderately moist; Very weak consistence; Field pH 5.8 (pH meter); Abundant, fine (1-2mm) roots; Clear change to
A3	0.08 - 0.43 m	Dark red (2.5YR3/5-Moist); ; Loam; Massive grade of structure; Moist; Very weak consistence; 0-2%, medium gravelly, 6-20mm, Basalt, coarse fragments; Field pH 6.6 (pH meter); Abundant, fine (1-2mm) roots; Gradual change to -
B1	0.43 - 0.64 m	Dark red (2.5YR3/5-Moist); ; Clay loam (Heavy); Moderate grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence; Field pH 6.9 (pH meter); Abundant, fine (1-2mm) roots; Gradual change to -
B21	0.64 - 1.09 m	Dark red (2.5YR3/5-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, Basalt, coarse fragments; Field pH 6.9 (pH meter); Few, coarse (>5mm) roots; Diffuse change to -
B22	1.09 - 1.55 m	Dark red (2.5YR3/5-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, Basalt, coarse fragments; Field pH 6.3 (pH meter); Few, coarse (>5mm) roots; Diffuse change to -
B23	1.55 - 2.08 m	Dark red (2.5YR3/5-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, Basalt, coarse fragments; Field pH 5.7 (pH meter); Few, coarse (>5mm) roots; Diffuse change to -
В3	2.13 - 2.59 m	Reddish brown (5YR4/4-Moist); , 10YR54; Heavy clay; Weak grade of structure, 20-50 mm, Subangular blocky; Moist; Very firm consistence; 0-2%, Basalt, coarse fragments; Field pH 5.8 (pH meter);

Morphological Notes

Observation Notes

SURFACE NON-WETTING

Site Notes

DARLING DOWNS

Project Name: DD
Project Code: DD Site ID: B169
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Laboratory Test Results:

Depth	pН	1:5 EC		hangeable	Cations K		Exchangeable	CEC	;	ECEC	ESP
m		dS/m	Ca	Mg	ĸ	Na Cmol (+)	Acidity /kg				%
0 - 0.08 0.08 - 0.43 0.43 - 0.64	5.8H 6.6H 6.9H	0.032B 0.015B 0.009B	10.9K	10.4	0.48	0.48	65.5D			87.6E	
0.43 - 0.64 0.64 - 1.09 1.09 - 1.55 1.55 - 2.08 2.13 - 2.59	6.9H 6.3H 5.7H 5.8H	0.009B 0.008B 0.023B 0.032B 0.015B	0.21K	6	1	1	12.7D			19.9E	
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	P GV	article CS	Size /	Analysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3	GV	03	%	Siit Clay
0 - 0.08 0.08 - 0.43 0.43 - 0.64		11.5E 4.59E	17C	0.107F 0.083F			0.70 0.90		6C 4C 4C	24 38 29	22 16 28 18 29 38
0.64 - 1.09 1.09 - 1.55 1.55 - 2.08		0.53E	7C	0.064F	0.04	2B			1C 1C	19 14	22 58 18 68
2.13 - 2.59									1C	23	17 58
Depth	COLE			vimetric/Volumetric					Ks	at	K unsat
m		Sat.	0.05 Bar	0.1 Bar g/g	0.5 Bar y - m3/m3	1 Bar 3	5 Bar 15 I	Bar	mm	/h	mm/h
0 - 0.08 0.08 - 0.43 0.43 - 0.64 0.64 - 1.09 1.09 - 1.55 1.55 - 2.08 2.13 - 2.59								26C 21C			

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Laboratory Analyses Completed for this profile

15_NR Sum of Ex. cations + Ex. acidity - 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

2_LOI Loss on Ignition (%)
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 recordede

6Z Organic carbon (%) - Not recorded
7_NR Total nitrogen (%) - Not recorded
9_NR Available P (mg/kg) - Not recorded
9A_NR Total element - P(%) - Not recorded

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

P3B_VL_15 15 BAR Moisture m3/m3 - Volumetric using pressure plate