DD **Project Name:** 

**Project Code:** Site ID: B250 Observation ID: 1 DD

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

Site Information

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

Elevation: 12/10/54 396 metres Map Ref.: Sheet No.: 9142 1:100000 Rainfall: 660

Northing/Long.: 151.11277777778 Runoff: Moderately rapid Imperfectly drained -27.5513888888889 Drainage: Easting/Lat.:

Geology

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

Geol. Ref.: **Substrate Material:** Auger boring, 1 m deep, Porous, QsJK

Unconsolidated material (unidentified)

**Land Form** 

Rel/Slope Class: No Data Pattern Type: Plain Morph. Type: No Data Relief: No Data Elem. Type: Plain Slope Category: No Data Aspect: No Data Slope: 0 %

Surface Soil Condition (dry): Hardsetting

**Erosion:** 

**Soil Classification** 

**Australian Soil Classification:** Mapping Unit: N/A Dd1.43 Hypocalcic Mesonatric Black Sodosol **Principal Profile Form:** Solodized **Great Soil Group: ASC Confidence:** All necessary analytical data are available. solonetz

Site Disturbance: Limited clearing, for example selective logging

Low Strata - Tussock grass, , . \*Species includes - Dichanthium sericeum, Aristida species Vegetation:

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

Surface Coarse Fragments: No surface coarse fragments

**Profile Morphology** 

A1	0 - 0.04 m	Light grey (10YR7/2-Dry); ; Sandy clay loam; Weak grade of structure, Platy; Dry; Firm consistence; Field pH 6.2 (pH meter); Common, very fine (0-1mm) roots; Clear change to -
A2	0.04 - 0.08 m	White (10YR8/1-Dry); ; Fine sandy loam (Heavy); Massive grade of structure; Moderately moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.3 (pH meter); Common, very fine (0-1mm) roots; Abrupt change to -
B21	0.08 - 0.25 m	Very dark grey (10YR3/1-Dry); ; Medium clay; Moderate grade of structure, 100-200 mm, Columnar; Moderate grade of structure, 50-100 mm, Prismatic; Moist; Very firm consistence; Field pH 5.9 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B22	0.25 - 0.53 m	Very dark grey (10YR3/1-Dry); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Field pH 7.6 (pH meter); Gradual change to -
В3	0.56 - 0.97 m	Grey (10YR5/1-Dry); ; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Massive grade of structure; Moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.4 (pH meter); Gradual change to -
С	1.02 - 1.83 m	Very dark grey (10YR3/1-Dry); , 10YR42; Medium clay; Massive grade of structure; Moist; Weak consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 5.1 (pH

## **Morphological Notes Observation Notes**

**Site Notes** 

DARLING DOWNS

Project Name: DD
Project Code: DD Site ID: B29
Agency Name: CSIRO Division of Soils (QLD) B250 Observation ID: 1

## **Laboratory Test Results:**

Depth	рН	1:5 EC		nangeable			xchangeable	CEC	E	CEC	ı	ESP
m		dS/m	Ca Mg		K	Na Acidity Cmol (+)/kg						%
0 - 0.04	6.2H	0.028B										
0.04 - 0.08	6.3H	0.024B										
0.08 - 0.25	5.9H	0.106B	7.1K	7.4	0.13	5.1	6.9D					
0.25 - 0.53	7.6H	0.213B	5 5V	7.0	47	77	0.70					
0.56 - 0.97 1.02 - 1.83	8.4H 5.1H	0.253B 0.258B		7.6	17	7.7	0.7D					
1.02 - 1.83	5.1H	0.2588										
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV		ize <i>A</i> FS	nalysis Silt	
m	%	%	mg/kg	г %	%	%	Mg/m3	GV	03	%	Siit	Clay
			99				9					
0 - 0.04		2.47A	17C	0.03F	0.17	7B	1.50		15C	47	15	19
0.04 - 0.08		1.04A			0.09	9B		0.4	15C	51	15	15
0.08 - 0.25		1.06A	6C	0.026F	0.1	В	1.50		11C	37	8	41
0.25 - 0.53		0.47A							11C	34	10	41
0.56 - 0.97	0.07C				0.04	4B	1.50	0.1	11C	38	11	38
1.02 - 1.83		0.07A		0.011F			1.40		10C	34	13	40
Depth	•					_	K sat		K unsa	t		
m		Sat.	0.05 Bar	0.1 Bar g/g	0.5 Bar y - m3/m3	1 Bar 3	5 Bar 15	Bar	mm/h		mm/h	
0 - 0.04 0.04 - 0.08				0.25C			0.	13C				
0.04 - 0.08 0.08 - 0.25 0.25 - 0.53				0.42C			0.	25C				
0.56 - 0.97 1.02 - 1.83				0.46C 0.47C			-	29C .3C				
				, <b>.</b>			ŭ					

Project Name: DD

Project Code: DD Site ID: B250 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

## **Laboratory Analyses Completed for this profile**

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 Exch. basic cations (Na++) - meq per 100g of soil - Not recorded Exch. basic cations (Na++) - meq per 100g of soil - Not recorded

19B\_NR Calcium Carbonate (CaCO3) - 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

6A1 Organic carbon - Walkley and Black
7\_NR Total nitrogen (%) - Not recorded
9\_NR Available P (mg/kg) - Not recorded
9A\_NR Total element - P(%) - Not recorded

P10\_GRAV Gravel (%)

P10\_NR\_C Clay (%) - Not recorded

P10\_NR\_CS
P10\_NR\_FS
P10\_NR\_FS
P10\_NR\_Z
P3A\_NR
Coarse sand (%) - Not recorded
Fine sand (%) - Not recorded
Silt (%) - Not recorded
Bulk density - Not recorded

P3B\_VL\_01
P3B\_VL\_15
0.1 BAR Moisture m3/m3 - Volumetric using suction plate
15 BAR Moisture m3/m3 - Volumetric using pressure plate