

**Project Name:** DD  
**Project Code:** DD **Site ID:** B241 **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>	05/10/54	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 9142 1:100000	<b>Rainfall:</b>	610
<b>Northing/Long.:</b>	151.257777777778	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	-27.5875	<b>Drainage:</b>	Imperfectly drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Qpc	<b>Substrate Material:</b>	Auger boring, 2 m deep, Unconsolidated material (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Alluvial plain
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Self-mulching

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Endocalcareous Self-Mulching Black Vertosol		<b>Principal Profile Form:</b>	Ug5.16
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Black earth

All necessary analytical data are available.

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

**Vegetation:**

Tall Strata - Tussock grass, 0.51-1m, Mid-dense. \*Species includes - None Recorded

**Surface Coarse Fragments:** No surface coarse fragments

**Profile Morphology**

AB	0 - 0.1 m	Black (10YR2/1-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm, Granular; Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Field pH 7.4 (pH meter); Common, fine (1-2mm) roots; Clear change to -
B2	0.1 - 0.53 m	Black (10YR2/1-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Field pH 8.4 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
B2	0.53 - 1.07 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.1 (pH meter); Gradual change to -
B2	1.07 - 1.37 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.7 (pH meter); Gradual change to -
B2	1.37 - 2.18 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.6 (pH meter);

**Morphological Notes**

**Observation Notes**

0-10CM GRANULAR GRADING TO COARSE BLOCKY STRUCTURE

**Site Notes**

DARLING DOWNS

**Observation ID: 1**

**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Comol (+)/kg				%
0 - 0.1	7.4H	0.045B	26.3K	22.6	1.1	2.2	4.9D			
0.1 - 0.53	8.4H	0.128B								
0.53 - 1.07	8.1H	0.256B	24.9K	26.6	0.78	6.7	1.5D			
1.07 - 1.37	8.7H	0.308B								
1.37 - 2.18	8.6H	0.341B								

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 - 0.1		2A	52C	0.078F	0.12B			0.3	15C	11	10	59
0.1 - 0.53												
0.53 - 1.07	0.02C	0.87A		0.092F				0	11C	8	14	66
1.07 - 1.37												
1.37 - 2.18	0.48C	0.11A						0.9	11C	9	12	65

[illegible]

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**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
15_NR_NA	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 recorded
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	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded