

Project Name: DD
Project Code: DD **Site ID:** B201 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	28/10/53	Elevation:	305 metres
Map Ref.:	Sheet No. : 9142 1:100000	Rainfall:	510
Northing/Long.:	151.336388888889	Runoff:	Moderately rapid
Easting/Lat.:	-27.745833333334	Drainage:	Imperfectly drained

Geology

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

Land Form

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

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Epicalcareous Self-Mulching Black Vertosol		Principal Profile Form:	Ug5.15
ASC Confidence:		Great Soil Group:	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, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

AB	0 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Granular; Moderately moist; Weak consistence; Field pH 6.9 (pH meter); Clear change to -
B21	0.1 - 0.3 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Field pH 7.1 (pH meter); Gradual change to -
B22	0.3 - 0.81 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 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 7.8 (pH meter); Gradual change
B23	0.86 - 1.02 m	Very dark brown (10YR2/2-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 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.8 (pH meter); Gradual change
B24	1.07 - 1.22 m	Yellowish brown (10YR5/4-Moist); , 10YR43; Medium clay; Moderate grade of structure, Angular blocky; Moist; Firm consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.8 (pH meter); Gradual change to -
B24	1.22 - 1.83 m	Yellowish brown (10YR5/4-Moist); , 10YR43; Light clay; Moderate grade of structure, Angular blocky; Moist; Firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.8 (pH meter);

Morphological Notes

Observation Notes

0-10CM GRANULAR GRADING TO BLOCKY STRUCTURE

Site Notes

DARLING DOWNS

Project Name: DD
Project Code: DD Site ID: B201 Observation ID: 1
Agency Name: CSIRO Division of Soils (QLD)

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity			%
						Cmol (+)/kg				
0 - 0.1	6.9H	0.04B	35.9K	4	2.4	0	8.1D			
0.1 - 0.3	7.1H	0.03B								
0.3 - 0.81	7.8H	0.05B	43.7K	5.7	1.1	1.2	4.6D			
0.86 - 1.02	8.8H	0.1B								
1.07 - 1.22	8.8H	0.1B								
1.22 - 1.83	8.8H	0.08B								

Depth m	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density Mg/m3	Particle		Size	Analysis		
	%	%	mg/kg	%	%	%		GV	CS	FS %	Silt	Clay	
0 - 0.1		3.55A	2313C	0.28F	0.23B			0.2	7C	12	27	47	
0.1 - 0.3		1.79A							0.2	5C	11	27	51
0.3 - 0.81	0.04C	1.2A			0.267F				0.2	4C	8	27	56
0.86 - 1.02													
1.07 - 1.22													
1.22 - 1.83	0.59C	0.11A		0.224F				2	0.5C	38	24	36	

[illegible]

Project Name: DD
Project Code: DD **Site ID:** B201 **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
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