Project Name: DD
Project Code: DD **Site ID:** B204 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 01/10/53
Map Ref.: Sheet No. : 9242 1:100000
Northing/Long.: 151.7675
Easting/Lat.: -27.6708333333333
Locality:
Elevation: 465 metres
Rainfall: 660
Runoff: Slow
Drainage: Imperfectly drained

Geology

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

Land Form

Rel/Slope Class: Level plain <9m <1%
Morph. Type: No Data
Elem. Type: Fan
Slope: 0 %
Pattern Type: Alluvial plain
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:
Endocalcareous Self-Mulching Black Vertosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Ug5.15
Great Soil Group: Black earth

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

Vegetation:

Tall Strata - Tussock grass, 0.51-1m, Closed or dense. *Species includes - Aristida species, Dichanthium sericeum

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

AB	0 - 0.08 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Granular; Dry; Loose consistence; Field pH 7.4 (pH meter); Common, very fine (0-1mm) roots; Clear
B2	0.08 - 0.43 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; Field pH 7.7 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
B2	0.43 - 0.71 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.3 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B2	0.71 - 1.17 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.6 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
B2	1.22 - 1.63 m	Very dark brown (10YR2/2-Moist); , 7.5YR44; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; Moderately plastic; 0-2%, medium gravelly, 6-20mm, subrounded, Basalt, coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.6 (pH meter); Diffuse change to -
B2	1.68 - 2.29 m	Strong brown (7.5YR5/5-Moist); , 10YR53; Heavy clay; Weak grade of structure, Lenticular; Moist; Firm consistence; Moderately plastic; 2-10%, medium gravelly, 6-20mm, subrounded, Basalt, coarse fragments; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.7 (pH meter);

Morphological Notes

Observation Notes

Site Notes

DARLING DOWNS

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.08	7.4H	0.05B								
0.08 - 0.43	7.7H	0.03B								
0.43 - 0.71	8.3H	0.03B	37K	29.4	0.93	1	4D			
0.71 - 1.17	8.6H	0.1B								
1.22 - 1.63	8.6H	0.18B	17.4K	36	0.81	2.3				
1.68 - 2.29	8.7H	0.24B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.08		3.35A	2240C	0.405F	0.24B			0.2	0.5C	8	25	61
0.08 - 0.43												
0.43 - 0.71	0.05C	1.35A						0.2	0.5C	6	24	64
0.71 - 1.17												
1.22 - 1.63	6.81C	0.45A						3	0.2C	8	25	59
1.68 - 2.29				0.319F								

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 - m3/m3							mm/h	mm/h
0 - 0.08										
0.08 - 0.43										
0.43 - 0.71										
0.71 - 1.17										
1.22 - 1.63										
1.68 - 2.29										

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