

Project Name: DD
Project Code: DD **Site ID:** B154 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	Locality:	
Date Desc.:	27/10/51	Elevation:	488 metres
Map Ref.:	Sheet No. : 9143 1:100000	Rainfall:	660
Northing/Long.:	151.583333333333	Runoff:	Moderately rapid
Easting/Lat.:	-27.466666666667	Drainage:	Well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Czb	Substrate Material:	Soil pit, 0.33 m deep,Limestone

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Alluvial plain
Morph. Type:	No Data	Relief:	5 metres
Elem. Type:	Plain	Slope Category:	Very gently sloped
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Self-mulching

Erosion: Very severe (wind);

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Epicalcareous Self-Mulching Black Vertosol	Principal Profile Form:	Uf6.11
ASC Confidence:	Great Soil Group:	Rendzina

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 - Bothriochloa species, Aristida

species

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.06 m	Very dark grey (10YR3/1-Moist); ; Clay loam; Strong grade of structure, <2 mm, Granular; Moderately moist; Very weak consistence; 2-10%, Limestone, coarse fragments; Field pH 8.2 (pH meter); Clear change to -
AB	0.06 - 0.23 m	Black (10YR2/1-Moist); ; Light clay; Strong grade of structure, <2 mm, Granular; Moist; Weak consistence; 2-10%, Limestone, coarse fragments; Field pH 8.4 (pH meter); Gradual change to -
B2	0.23 - 0.33 m	Very dark grey (10YR3/1-Moist); ; Light clay; Strong grade of structure, 2-5 mm, Angular blocky; Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, Limestone, coarse fragments; Field pH 8.6 (pH meter); Sharp change to -
C	0.33 - 0.46 m	Very dark grey (10YR3/1-Moist); , 2.5Y52; Clay loam; Massive grade of structure; Moist; Weak consistence; 50-90%, Limestone, coarse fragments; Field pH 8.7 (pH meter);

Morphological Notes

Observation Notes

6-23CM STRONG GRANULAR GRADING TO STRONG FINE ANGULAR 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				Cmol (+)/kg				%
0 - 0.06	8.2A	0.22A	33.6B	17.5	4	0.24	1.5D	56.3J	55.4E	0.43
0.06 - 0.23	8.4A	0.21A	30.4B	15	3.3	0.32	1.3D		50.6E	
0.23 - 0.33	8.6A	0.18A	27.2B	18.4	1.1	0.37	1D	48.1J	47E	0.77
0.33 - 0.46	8.7A	0.22A								

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Laboratory Analyses Completed for this profile

15_NR	Sum of Ex. cations + Ex. acidity - Not recorded
15_NR_CEC	CEC - meq per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
19B_NR	Calcium Carbonate (CaCO ₃) - Not recorded
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9_NR	Available P (mg/kg) - Not recorded
9A1	Total phosphorus - X-ray fluorescence
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