

Project Name: DD
Project Code: DD **Site ID:** B206 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	Locality:	
Date Desc.:	01/10/53	Elevation:	442 metres
Map Ref.:	Sheet No. : 9242 1:100000	Rainfall:	660
Northing/Long.:	151.755555555556	Runoff:	Moderately rapid
Easting/Lat.:	-27.748055555556	Drainage:	Moderately well drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Pediplain
Morph. Type:	No Data	Relief:	15 metres
Elem. Type:	Pediment	Slope Category:	No Data
Slope:	3.5 %	Aspect:	No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Epicalcareous-Endohypersodic Self-Mulching Black Vertosol		Principal Profile Form:	Ug5.15

ASC Confidence:

All necessary analytical data are available.

Great Soil Group:

Black earth

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 - 0.04 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Strong grade of structure, <2 mm, Granular; Dry; Loose consistence; 0-2%, medium gravelly, 6-20mm, Basalt, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.2 (pH meter); Common, very fine (0-1mm) roots; Clear change to -
B2	0.04 - 0.28 m	Very dark greyish brown (10YR3/2-Moist); , 5YR32; Heavy clay; Moderate grade of structure, Angular blocky; Moderately moist; Firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.9 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B2	0.28 - 0.79 m	Dark brown (7.5YR3/2-Moist); , 10YR32; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.2 (pH meter); Gradual change to -
B2	0.79 - 1.07 m	Dark brown (7.5YR3/2-Moist); , 5YR43; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, Basalt, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.1 (pH meter); Diffuse change to -
B2	1.12 - 1.52 m	Reddish brown (5YR4/3-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, Basalt, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9 (pH meter);

Morphological Notes

Observation Notes

0-4CM GRANULAR GRADING TO BLOCKY STRUCTURE:BANK PROFILE

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 - 0.04	8.2H	0.07B								
0.04 - 0.28	8.9H	0.08B								
0.28 - 0.79	9.2H	0.14B	19.6K	29.5	0.47	5.8				
0.79 - 1.07	9.1H	0.28B								
1.12 - 1.52	9H	0.33B								

Depth	CaCO ₃	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size		Analysis	
m	%	%	mg/kg	%	%	%	Mg/m ³	Gv	Cs	Fs	Silt Clay
0 - 0.04		1.26A									
0.04 - 0.28		0.96A	472C	0.16F							
0.28 - 0.79	9.49C	0.63A						0.2	0.5C	7	14 68
0.79 - 1.07		0.44A									
1.12 - 1.52		0.17A									

[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_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 (CaCO ₃) - 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
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