

Project Name: DD
Project Code: DD **Site ID:** B191 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	Locality:	
Date Desc.:	23/10/53	Elevation:	457 metres
Map Ref.:	Sheet No. : 9242 1:100000	Rainfall:	660
Northing/Long.:	151.570277777778	Runoff:	Moderately rapid
Easting/Lat.:	-27.7475	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Jw	Substrate Material:	Soil pit, 0.94 m deep,Porous, Mudstone

Land Form

Rel/Slope Class:	Rolling low hills 30-90m 10-32%	Pattern Type:	Low hills
Morph. Type:	No Data	Relief:	30 metres
Elem. Type:	Pediment	Slope Category:	No Data
Slope:	5.25 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Epicalcareous-Epihypersodic Epipedal Black Vertosol		Principal Profile Form:	Ug5.14
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: Low Strata - Tussock grass, , . *Species includes - Bothriochloa decipiens, Aristida species
Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Eucalyptus populnea, Acacia harpophylla

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

AB	0 - 0.05 m	Dark grey (10YR4/1-Dry); ; Medium clay; Strong grade of structure, <2 mm, Granular; Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm, Detrital sedimentary rock (unidentified), coarse fragments; Field pH 7.7 (pH meter); Clear change to -
B2	0.05 - 0.33 m	Black (10YR2/1-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, Detrital sedimentary rock (unidentified), coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.2 (pH meter); Gradual change to -
B2	0.34 - 0.64 m	Black (10YR2/1-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Detrital sedimentary rock (unidentified), coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.6 (pH meter); Gradual change to -
B2	0.64 - 0.76 m	Black (10YR2/1-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, Detrital sedimentary rock (unidentified), coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.4 (pH meter); Gradual change to -
B3	0.79 - 0.94 m	Black (10YR2/1-Moist); , 2.5Y42; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, Detrital sedimentary rock (unidentified), coarse fragments; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 7.9 (pH meter); Gradual change to -
C	0.94 - 1.22 m	Greyish brown (2.5Y5/2-Moist); , 2.5Y64; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 2-10%, Mudstone, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Gypseous, , Crystals; Field pH 8.8 (pH meter); Gradual change to -
D	1.22 - 1.52 m	Brownish yellow (10YR6/6-Moist); , 10YR63; Medium clay; Massive grade of structure; Moist; Weak consistence; Field pH 9.1 (pH meter);

Morphological Notes

Observation Notes

0-5CM GRANULAR GRADING TO BLOCK STRUCTURE;D HORIZON WEATHERED MUDSTONE

Project Name: DD
Project Code: DD **Site ID:** B191 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Notes

DARLING DOWNS

Observation ID: 1

[illegible]

Project Name: DD
Project Code: DD Site ID: B191 Observation ID: 1
Agency Name: CSIRO Division of Soils (QLD)

Laboratory Analyses Completed for this profile

15_NR	Sum of Ex. cations + Ex. acidity - Not recorded
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 (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
6Z	Organic carbon (%) - Not recorded
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
P3A_NR	Bulk density - Not recorded
P3B_VL_15	15 BAR Moisture m ³ /m ³ - Volumetric using pressure plate