

Project Name: DD
Project Code: DD **Site ID:** B173 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Beckmann	Locality:	
Date Desc.:	06/08/52	Elevation:	30 metres
Map Ref.:	Sheet No. : 9142 1:100000	Rainfall:	690
Northing/Long.:	151.419166666667	Runoff:	Very slow
Easting/Lat.:	-27.580555555556	Drainage:	Poorly drained

Geology

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

Land Form

Rel/Slope Class:	No Data	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-Endohypersodic Self-Mulching Black Vertosol		Principal Profile Form:	Ug5.16

ASC Confidence:

All necessary analytical data are available.

Great Soil Group: Black earth

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

Ap	0 - 0.04 m	Very dark grey (10YR3/1-Dry); ; Heavy clay; Strong grade of structure, 5-10 mm, Granular; Dry; Weak consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.3 (pH meter); Clear change to -
B2	0.04 - 0.25 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Moderately plastic; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.7 (pH meter); Abundant, fine (1-2mm) roots; Gradual change to -
B2	0.25 - 0.48 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Moderately plastic; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.9 (pH meter); Abundant, fine (1-2mm) roots; Gradual change to -
B2	0.51 - 0.86 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9 (pH meter); Common, fine (1-2mm) roots; Diffuse change to -
B3	0.91 - 1.32 m	Greyish brown (10YR5/2-Moist); , 2.5Y64; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 8.8 (pH meter); Few, fine (1-2mm) roots; Diffuse change to -
B3	1.32 - 1.83 m	Greyish brown (10YR5/2-Moist); , 2.5Y64; Heavy clay; Weak grade of structure, Lenticular; Moist; Weak consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Gypseous, , Crystals; Field pH 8.3 (pH meter);

Morphological Notes

Observation Notes

WATER LOGGED FOR UP TO ONE WEEK DURING HEAVY WET SEASONS

Site Notes

DARLING DOWNS

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[illegible]

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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_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
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 m3/m3 - Volumetric using pressure plate