

Project Name: DD
Project Code: DD **Site ID:** B164 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Beckmann	Locality:	Cultivated for wheat
Date Desc.:	01/11/51	Elevation:	530 metres
Map Ref.:	Sheet No. : 9242 1:100000	Rainfall:	711
Northing/Long.:	151.805555555556	Runoff:	Moderately rapid
Easting/Lat.:	-27.525555555556	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Tm	Substrate Material:	Soil pit, 0.86 m deep, Non-porous, dense, Basalt

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	Pattern Type:	Low hills
Morph. Type:	Upper-slope	Relief:	30 metres
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Cracking

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Epipedal Black Vertosol		Principal Profile Form:	Ug5.12
ASC Confidence:		Great Soil Group:	Black earth

All necessary analytical data are available.

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments: 0-2%, cobbly, 60-200mm, , Basalt

Profile Morphology

Ap	0 - 0.08 m	Black (10YR2/1-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Granular; Dry; Firm consistence; Field pH 6.8 (pH meter); Many, fine (1-2mm) roots; Clear change to -
B2	0.08 - 0.46 m	Very dark brown (10YR2/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Basalt, coarse fragments; Field pH 7.8 (pH meter); Common, fine (1-2mm) roots; Gradual
B2	0.46 - 0.81 m	Very dark brown (10YR2/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, Basalt, coarse fragments; Field pH 8.4 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
C	0.86 - 1.47 m	Light yellowish brown (10YR6/4-Moist); ; Clay loam; Massive grade of structure; Moist; Very weak consistence; Few (2 - 10 %), Calcareous, , Nodules; Field pH 9 (pH meter);

Morphological Notes

Observation Notes

0-8CM GRANULAR GRADING TO BLOCKY STRUCTURE

Site Notes

DARLING DOWNS

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Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.08	6.8H	0.033B								
0.08 - 0.46	7.8H	0.026B	22.5K	26.9	0.32	0.9	6.5D		57.1E	
0.46 - 0.81	8.4H	0.05B								
0.86 - 1.47	9H	0.063B								

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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_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
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