

Project Name: DD
Project Code: DD **Site ID:** B194 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Beckmann	Locality:	
Date Desc.:	01/10/53	Elevation:	395 metres
Map Ref.:	Sheet No. : 9142 1:100000	Rainfall:	660
Northing/Long.:	151.498611111111	Runoff:	Slow
Easting/Lat.:	-27.6458333333333	Drainage:	Poorly drained

Geology

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

Land Form

Rel/Slope Class:	Level plain <9m <1%	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):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Epicalcareous-Endohypersodic Epipedal Black Vertosol		Principal Profile Form:	Ug5.16
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 - Bassia species
Mid Strata - Shrub, , . *Species includes - Eremophila gilesii, Atriplex muelleri
Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Acacia harpophylla, Casuarina cristata

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

AB	0 - 0.08 m	Very dark grey (10YR3/1-Dry); ; Heavy clay; Strong grade of structure, Granular; Moist; Weak consistence; Field pH 7.7 (pH meter);
B2	0.08 - 0.43 m	Black (10YR2/1-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9 (pH meter);
B2	0.43 - 0.69 m	Black (10YR2/1-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; , Angular blocky; Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 8.3 (pH meter);
B2	0.69 - 0.91 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; , Angular blocky; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 8.8 (pH meter);
B2	0.91 - 1.45 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; , Angular blocky; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, , Soft segregations; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Very few (0 - 2 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 9 (pH meter);

Morphological Notes

Observation Notes

0-8CM GRANULAR GRADING TO BLOCKY STRUCTURE SUBSTRATE DERIVED FROM BASALT +WALLOON ROCKS

Site Notes

DARLING DOWNS

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Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol	(+)/kg		
0 - 0.08	7.7H	0.07B	43K	7.3	1.6	0.95	3.1D	56.6E	
0.08 - 0.43	9H	0.17B	27.4K	17.7	0.5	6		52.4E	
0.43 - 0.69	8.3H	0.98B							
0.69 - 0.91	8.8H	0.58B							
0.91 - 1.45	9H	0.51B							

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Particle CS	Size FS	Analysis Silt	Analysis Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.08	0.02C	4.36E	131C	0.04F	0.37B		1.20		7C	27	14	47
0.08 - 0.43	1.73C	1.36A		0.022F			1.30		6C	25	14	49
0.43 - 0.69				0.02F								
0.69 - 0.91	5.88C	0.37A		0.04F				11	3C	16	16	59
0.91 - 1.45				0.051F								

[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_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
6A1	Organic carbon - Walkley and Black
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