Project Name: DD
Project Code: DD **Site ID:** B157 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.G. Beckmann
Date Desc.: 01/11/51
Map Ref.: Sheet No. : 9242 1:100000
Northing/Long.: 151.848611111111
Easting/Lat.: -27.5277777777778
Locality:
Elevation: 530 metres
Rainfall: 570
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

ExposureType: Soil pit
Geol. Ref.: Tm
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Soil pit, 0.58 m deep,Slightly porous, Basalt

Land Form

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

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:
Epicalcareous Self-Mulching Black Vertosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Ug5.12
Great Soil Group: Black earth

Site Disturbance: Cultivation. Rainfed

Vegetation:

Tall Strata - Tree, 3.01-6m, Very sparse. *Species includes - Eucalyptus orgadophylla, Eucalyptus crebra

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

Profile Morphology

A/B	0 - 0.13 m	Very dark brown (10YR2/2-Moist); ; Heavy clay; Strong grade of structure, Granular; Dry; Very firm consistence; Field pH 6.9 (pH meter); Clear change to -
B2	0.13 - 0.51 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; 2-10%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 7.4 (pH meter); Gradual change to -
C	0.58 - 0.84 m	;

Morphological Notes

C Yellowish grey and brown decomposed basalt

Observation Notes

0-13CM STRONG GRANULAR GRADING TO FINE BLOCKY STRUCTURE

Site Notes

DARLING DOWNS

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.13	6.9H	0.045B	4.5K	27	1.1	0.39	10.2D		84.2E	
0.13 - 0.51	7.4H	0.027B	49K	22.3	0.52	0.55	5.9D		78.3E	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.13		3.57E	110C	0.067F	0.162B				1C	9	17	68
0.13 - 0.51		2.76E		0.065F	0.234B			1	1C	12	12	73

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0 - 0.13									
0.13 - 0.51									

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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
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 recordede
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