Project Name: DD
Project Code: DD **Site ID:** B222 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.G. Beckmann
Date Desc.: 13/11/53
Map Ref.: Sheet No. : 9242 1:100000
Northing/Long.: 151.986111111111
Easting/Lat.: -27.5791666666667
Locality:
Elevation: 704 metres
Rainfall: 914
Runoff: Moderately rapid
Drainage: Well drained

Geology

ExposureType: Soil pit
Geol. Ref.: Tm
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 0.66 m deep,Basalt

Land Form

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: Plain
Slope: 0 %
Pattern Type: Plateau
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Eutrophic Red Ferrosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: Gn3.12
Great Soil Group: Euchrozem

Site Disturbance: Limited clearing, for example selective logging

Vegetation:
Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.15 m	Dark reddish brown (5YR3/3-Dry); ; Light clay; Strong grade of structure, 2-5 mm, Granular; Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, Basalt, coarse fragments; Field pH 6.3 (pH meter); Abundant, very fine (0-1mm) roots; Gradual change to -
B2	0.15 - 0.38 m	Dark red (2.5YR3/5-Dry); ; Medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; 10-20%, medium gravelly, 6-20mm, Basalt, coarse fragments; Field pH 6.5 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
B3	0.38 - 0.61 m	Reddish brown (5YR4/3-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; 10-20%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Field pH 6.7 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
C	0.66 - 1.02 m	; Field pH 7.3 (pH meter);

Morphological Notes

C Dark grey weathered basalt with clay pockets

Observation Notes

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 - 0.15	6.3H	0.03B								
0.15 - 0.38	6.5H	0.02B	10.1K	6.6	0.96	0.06	16.3D			
0.38 - 0.61	6.7H	0.02B								
0.66 - 1.02	7.3H	0.01B								

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 - 0.15		4.58A	95C	0.394F	0.314B			3	3C	16	25	48
0.15 - 0.38		1.57A						18	6C	18	21	53
0.38 - 0.61		0.93A						20	6C	16	18	60
0.66 - 1.02												

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 - 0.15									
0.15 - 0.38									
0.38 - 0.61									
0.66 - 1.02									

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Laboratory Analyses Completed for this profile

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
6A1	Organic carbon - Walkley and Black
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