Project Name: BL
Project Code: BL **Site ID:** B264 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 16/06/55
Map Ref.: Sheet No. : 8943 1:100000
Northing/Long.: 150.030555555556
Easting/Lat.: -27.2694444444445
Locality:
Elevation: 293 metres
Rainfall: 575
Runoff: No runoff
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: Qs
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 3 m deep,Clay

Land Form

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

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:
Epicalcareous-Endoacidic Self-Mulching Grey Vertosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Ug5.24
Great Soil Group: Grey clay

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Mid Strata - Tree, 1.01-3m, Closed or dense. *Species includes - Geijera parviflora

Tall Strata - Tree, 12.01-20m, Closed or dense. *Species includes - Casuarina cristata, Acacia harpophylla

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

AB	0 - 0.05 m	Dark greyish brown (10YR4/2-Moist); ; Medium clay; Strong grade of structure, <2 mm, Granular; Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 7.7 (pH meter); Few, very fine (0-1mm) roots; Clear change to -
B2	0.06 - 0.3 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 8.5 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B2	0.3 - 0.56 m	Brown (10YR5/3-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 8.2 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
B2	0.71 - 1.22 m	Pale brown (10YR6/3-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; Field pH 4.7 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
B2	1.22 - 2.13 m	Pale brown (10YR6/3-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; Field pH 4.3 (pH meter); Few, fine (1-2mm) roots; Diffuse change to -
B2	2.44 - 3.05 m	Light grey (10YR7/2-Moist); , 7.5YR54; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; Field pH 4.2 (pH meter);

Morphological Notes

Observation Notes

0-5CM GRANULAR GRADING TO BLOCKY STRUCTURE BANK PROFILE

Site Notes

TARA

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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 - 0.05	7.7H	0.09B	25.2K	6.9	2.4	1.4	3.5D			
0.06 - 0.3	8.5H	0.2B								
0.3 - 0.56	8.2H	0.58B	15.8K	12.2	0.94	3.4	0.93D			
0.71 - 1.22	4.7H	0.59B	9.2K	10.7	0.79	6.5	9.2D			
1.22 - 2.13	4.3H	0.56B								
2.44 - 3.05	4.2H	0.61B	5.2K	9.2	0.51	6.8	12.9D			

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 - 0.05		2.41A	56C	0.052F	0.26B			0	3C	35	11	46
0.06 - 0.3		0.69A			0.09B			0	2C	28	12	55
0.3 - 0.56		0.33A						0	2C	29	13	56
0.71 - 1.22		0.28A		0.014F	0.04B			0	0.7C	25	13	62
1.22 - 2.13		0.16A						0	0.7C	21	15	65
2.44 - 3.05		0.11A		0.015F	0.02B			0	0.5C	22	15	64

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 - 0.05									
0.06 - 0.3									
0.3 - 0.56									
0.71 - 1.22									
1.22 - 2.13									
2.44 - 3.05									

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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
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