Project Name: COL
Project Code: COL **Site ID:** B471 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: R.F. Isbell
Date Desc.: 07/08/61
Map Ref.: Sheet No. : 8456 1:100000
Northing/Long.: 147.861111111111
Easting/Lat.: -20.9111111111111
Locality:
Elevation: No Data
Rainfall: 0
Runoff: Moderately rapid
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: Puw
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Soil pit, 0.61 m deep,Sandstone

Land Form

Rel/Slope Class: No Data
Morph. Type: Crest
Elem. Type: No Data
Slope: 0 %
Pattern Type: No Data
Relief: 5 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Cracking

Erosion:

Soil Classification

Australian Soil Classification:
Endocalcareous Epipedal Brown Vertosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Ug5.13
Great Soil Group: Brown clay

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, , Closed or dense. *Species includes - Bothriochloa ewartiana
Tall Strata - Tree, , Isolated clumps. *Species includes - Acacia harpophylla, Eucalyptus papuana

Surface Coarse Fragments: 2-10%, coarse gravelly, 20-60mm, , Substrate material

Profile Morphology

AB	0 - 0.25 m	Dark brown (7.5YR3/2-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; 0-2%, Substrate material, coarse fragments; Field pH 7.4 (pH meter); Gradual change to -
B2	0.25 - 0.41 m	Brown (10YR4/3-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; 2-10%, Substrate material, coarse fragments; Field pH 8.2 (pH meter); Gradual change to -
BC	0.41 - 0.61 m	Yellowish brown (10YR5/4-Moist); ; Light clay; Massive grade of structure; Dry; Firm consistence; 2-10%, Substrate material, coarse fragments; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 8.6 (pH meter); Gradual change to -
C	0.61 - 0.76 m	; Field pH 8.6 (pH meter);

Morphological Notes

C LYB (10YR6/4) soft fels. sandstone with moderate Ca nods.

Observation Notes

0-25CM THIN PLATY SURFACE OVER MODERATE (6MM) GRANULAR,GRADING TO BLOCKY STRUCTURE BELOW 1.5CM:CALCAREOUS SEGREGATIONS BOTH SOFT AND NODULAR:

Site Notes

COLLINSVILLE

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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 - 0.25	7.4H	0.03B	29.8K	7.2	0.65	0.1	2.12D			
0.25 - 0.41	8.2H	0.05B								
0.41 - 0.61	8.6H	0.04B	23.2K	8.3	0.11	0.1	0D			
0.61 - 0.76	8.6H	0.04B								

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 - 0.25		1.6A	82C	0.055F	0.196B				8C	19	51	51
0.25 - 0.41			186C									
0.41 - 0.61	23.5C							5	5C	22	23	23
0.61 - 0.76			500C	0.152F								

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 - 0.25									
0.25 - 0.41									
0.41 - 0.61									
0.61 - 0.76									

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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
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 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