

Project Name: COL
Project Code: COL **Site ID:** B470 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.F. Isbell	Locality:	
Date Desc.:	01/08/61	Elevation:	No Data
Map Ref.:	Sheet No. : 8456 1:100000	Rainfall:	0
Northing/Long.:	147.875	Runoff:	Moderately rapid
Easting/Lat.:	-20.8944444444445	Drainage:	Imperfectly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Pue	Substrate Material:	Auger boring, 0.91 m deep, Sandstone

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Surface crust

Erosion:

Soil Classification

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

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 plants. *Species includes - Eucalyptus papuana

Surface Coarse Fragments: 2-10%, medium gravelly, 6-20mm, , Substrate material

Profile Morphology

AB	0 - 0.15 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Granular; Moderately moist; Weak consistence; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.3 (pH meter); Gradual change to -
B2	0.15 - 0.46 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.8 (pH meter); Gradual change
B2	0.46 - 0.76 m	Very dark grey (10YR3/1-Moist); ; Medium clay; , Lenticular; Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 8.9 (pH meter); Gradual change to -
B2	0.76 - 0.91 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; , Lenticular; Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 8.8 (pH meter); Gradual change to -
C	0.91 - 1.22 m	Brownish yellow (10YR6/6-Moist); ; Medium clay; Massive grade of structure; Moderately moist; Weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 9.2 (pH meter); Gradual change to -
C	1.22 - 1.42 m	; Field pH 9.3 (pH meter);

Morphological Notes

C LYB(10YR6/4) weathered feldspathic sandstone.

Observation Notes

0-15CM GRANULAR GRADING TO BLOCKY STRUCTURE:SUBSTRATE IS FELDSPATHIC SANDSTONE WITH POCKETS OF CLAY:

Site Notes

COLLINSVILLE

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				cmol (+)/kg				%
0 - 0.15	8.3H	0.04B	29.5K	7.2	0.93	0.15	0D			
0.15 - 0.46	8.8H	0.09B								
0.46 - 0.76	8.9H	0.36B								
0.76 - 0.91	8.8H	0.57B								
0.91 - 1.22	9.2H	0.47B	6.6K	9.7	0.13	7.4	0D			
1.22 - 1.42	9.3H	0.42B								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
		C	P	P	N	K		Density	GV		CS	FS
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.15	0.4C	1.5A	85C	0.036F	0.157B			0	21C	26	14	35
0.15 - 0.46	0.4C	1.1A	41C						19C	22	14	41
0.46 - 0.76												
0.76 - 0.91												
0.91 - 1.22	13.7C							0	7C	30	20	28
1.22 - 1.42			280C	0.047F								

[illegible]

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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 recorded
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