

Project Name: COL
Project Code: COL **Site ID:** B469 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.F. Isbell	Locality:	
Date Desc.:	08/08/61	Elevation:	No Data
Map Ref.:	Sheet No. : 8456 1:100000	Rainfall:	0
Northing/Long.:	147.947222222222	Runoff:	Slow
Easting/Lat.:	-20.8611111111111	Drainage:	Imperfectly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Puw	Substrate Material:	Auger boring, 1.6 m deep, Mudstone

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Crest	Relief:	15 metres
Elem. Type:	No Data	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Epicalcareous Self-Mulching Grey Vertosol		Principal Profile Form:	Ug5.25
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, Heteropogon contortus

Tall Strata - Tree, , Isolated plants. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.04 m	Dark greyish brown (10YR4/2-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Granular; Dry; Loose consistence; Few (2 - 10 %), Calcareous, , Nodules; Field pH 8.4 (pH meter); Sharp change to -
B2	0.04 - 0.3 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; Few (2 - 10 %), Calcareous, , Nodules; Field pH 8.6 (pH meter); Gradual change to -
B2	0.3 - 0.61 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; , Lenticular; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; Few (2 - 10 %), Calcareous, , Nodules; Field pH 8.9 (pH meter); Gradual change to -
B2	0.61 - 1.07 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; , Lenticular; Dry; Very firm consistence; Few (2 - 10 %), Calcareous, , Nodules; Field pH 8.9 (pH meter); Gradual change to -
BC	1.07 - 1.37 m	Brown (10YR4/3-Moist); ; Medium clay; Massive grade of structure; Moderately moist; Firm consistence; 10-20%, Mudstone, coarse fragments; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.7 (pH meter); Gradual change to -
C	1.37 - 1.68 m	Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Massive grade of structure; Moderately moist; Weak consistence; 20-50%, Shale, coarse fragments; Field pH 7.4 (pH meter); Gradual change to -
C	1.68 - 1.93 m	Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Massive grade of structure; Moderately moist; Weak consistence; 20-50%, Shale, coarse fragments; Field pH 6.1 (pH meter); Gradual change to -

Morphological Notes

Observation Notes

PUFF PROFILE. SUBSTRATE MUDSTONE & SHALE.

Site Notes

COLLINSVILLE

Observation ID: 1

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			
0 - 0.04	8.4H	0.04B							
0.04 - 0.3	8.6H	0.05B	44K	10.2	0.65	0.65	0D		
0.3 - 0.61	8.9H	0.09B							
0.61 - 1.07	8.9H	0.23B	32.4K	13.4	0.36	2.4	0D		
1.07 - 1.37	8.7H	0.44B							
1.37 - 1.68	7.4H	0.44B							
1.68 - 1.93	6.1H	0.49B							

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size	Analysis	
								GV	CS		FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.04	2.6C	1.4A	130C	0.051F	0.168B			2	4C	16	23	50
0.04 - 0.3	5.4C	0.87A	54C	0.035F	0.114B			0	3C	11	16	62
0.3 - 0.61		0.63A			0.092B							
0.61 - 1.07	5.4C		60C					0	3C	11	19	60
1.07 - 1.37												
1.37 - 1.68												
1.68 - 1.93			50C	0.024F								

[illegible]

Project Name: COL
Project Code: COL **Site ID:** B469 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

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 (CaCO ₃) - 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