

Project Name: COL
Project Code: COL **Site ID:** B476 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.F. Isbell	Locality:	
Date Desc.:	21/07/61	Elevation:	No Data
Map Ref.:	Sheet No. : 8456 1:100000	Rainfall:	0
Northing/Long.:	147.819444444444	Runoff:	Moderately rapid
Easting/Lat.:	-20.941666666667	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Puw	Substrate Material:	Soil pit, 0.51 m deep,Sandstone

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): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Hypocalcic Red Chromosol		Principal Profile Form:	Dr2.13
ASC Confidence:		Great Soil Group:	Red-brown earth
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, 3.01-6m, Very sparse. *Species includes - Eucalyptus crebra, Eucalyptus dichromophloia,
Eucalyptus
pauana

Surface Coarse Fragments: 0-2%, medium gravelly, 6-20mm, , Substrate material

Profile Morphology

A1	0 - 0.08 m	Dark reddish grey (5YR4/2-Moist); ; Sandy clay loam; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Weak consistence; Field pH 7.2 (pH meter); Clear change to -
B21	0.08 - 0.3 m	Reddish brown (2.5YR4/4-Moist); ; Medium clay; Weak grade of structure, Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; 2-10%, Sandstone, coarse fragments; Field pH 7 (pH meter); Gradual change to -
B22	0.3 - 0.51 m	Yellowish red (5YR5/6-Moist); ; Light clay; Moderate grade of structure, 50-100 mm, Angular blocky; Dry; Very firm consistence; 10-20%, medium gravelly, 6-20mm, Sandstone, coarse fragments; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 7.5 (pH meter); Gradual change to -
C	0.51 - 0.76 m	; Field pH 8.6 (pH meter);

Morphological Notes

C YB(10YR4/6) weathered SST. with clay pockets,2-10% Ca segns

Observation Notes

51-76CM WEATHERED LITHIC SANDSTONE IS CALCAREOUS:

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 - 0.08	7.2H	0.04B	15.4K	4.2	0.92	0.06	2.5D			
0.08 - 0.3	7H	0.09B	21.4K	5.1	0.47	0.09	4.5D			
0.3 - 0.51	7.5H	0.27B	23.9K	4.8	0.3	0.43	1.5D			
0.51 - 0.76	8.6H	0.42B								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.08		1.2A	18C	0.033F	0.108B			0	29C	22	12	35
0.08 - 0.3		0.68A	5C					0	23C	16	10	47
0.3 - 0.51	0.1C	0.46A							27C	18	14	41
0.51 - 0.76	5.7C		548C	0.085F								

[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 (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