COL **Project Name:** 

**Project Code: B468** Observation ID: 1 COL Site ID:

**CSIRO** Division of Soils (QLD) Agency Name:

Site Information

Desc. By: Date Desc.: R.F. Isbell Locality:

Elevation: 08/08/61 No Data Map Ref.: Sheet No.: 8456 1:100000 Rainfall: Northing/Long.: 147.94722222222 Runoff: Very slow Easting/Lat.: -20.8611111111111 Drainage: Poorly drained

Geology

ExposureType: Conf. Sub. is Parent. Mat.: Soil pit No Data

**Substrate Material:** Geol. Ref.: Auger boring, 1.2 m deep, Shale Puw

**Land Form** 

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

Surface Soil Condition (dry): Self-mulching

**Erosion:** 

**Soil Classification** 

Australian Soil Classification: N/A Mapping Unit: Epicalcareous-Endohypersodic Self-Mulching Brown Vertosol **Principal Profile Form:** Ug5.33

**ASC Confidence: Great Soil Group:** Brown clay

All necessary analytical data are available.

Site Disturbance: No effective disturbance other than grazing by hoofed animals Low Strata - Tussock grass, , . \*Species includes - None recorded Vegetation:

Mid Strata - Shrub, , . \*Species includes - Carissa ovata, Enchylaena tomentosa

Tall Strata - Tree, 3.01-6m, Mid-dense. \*Species includes - Acacia harpophylla, Bassia species

Surface Coarse Fragments: No surface coarse fragments

**Profile Morphology** 

A1	0 - 0.04 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Moderate grade of structure, 5-10 mm, Granular; Dry; Loose consistence; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 7.5 (pH meter); Sharp change to -
B2	0.04 - 0.3 m	Brown (10YR4/3-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.6 (pH meter); Gradual change to -
B2	0.3 - 0.61 m	Brown (10YR4/3-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.6 (pH meter); Gradual change to -
B2	0.61 - 0.91 m	Brown (10YR4/3-Moist); ; Heavy clay; , Lenticular; Dry; Very firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.3 (pH meter); Gradual change to -
B2	0.91 - 1.22 m	Yellowish brown (10YR5/4-Moist); ; Heavy clay; , Lenticular; Moderately moist; Firm consistence; 2-10%, Shale, coarse fragments; Field pH 7.1 (pH meter); Gradual change to -
С	1.22 - 1.52 m	Light yellowish brown (10YR6/4-Moist); ; Medium clay; Massive grade of structure; Moderately moist; Firm consistence; 20-50%, Shale, coarse fragments; Field pH 5.2 (pH meter); Gradual change to -
_		

С ; Field pH 4.8 (pH meter); 1.52 - 1.68 m

**Morphological Notes** 

As above with numerous fragments of weathered shale.

**Observation Notes** 

CALCAREOUS SEGREGATIONS BOTH SOFT AND NODULES:

**Site Notes** 

COLLINSVILLE

Project Name: Project Code: Agency Name: COL

COL Site ID: B46 CSIRO Division of Soils (QLD) B468 Observation ID: 1

## **Laboratory Test Results:**

Laboratory rest results.													
Depth	pН	1:5 EC		hangeable ( Mg	Cations K	Na	Exchangeable Acidity	CEC		ECEC	E	SP	
m		dS/m		J		Cmol (+	·)/kg				(	%	
0 - 0.04	7.5H	0.07B											
0.04 - 0.3 0.3 - 0.61	8.6H 8.6H	0.09B 0.32B	35.8K	14.1	0.6	2	0D						
0.61 - 0.91	8.3H	0.63B	22.5K	18	0.5	7.9	0D						
0.91 - 1.22	7.1H	0.62B											
1.22 - 1.52	5.2H	0.61B											
1.52 - 1.68	4.8H	0.53B											
Depth	CaCO3	Organic	Avail.	Total	Total	Total					Analysis		
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	cs	FS %	Silt	Clay	
0 - 0.04		2.3A	65C	0.053F	0.24	7R		0	3C	15	15	60	
0.04 - 0.3	1C	1.1A	12C	0.033F	0.21			0	3C	14	_	64	
0.3 - 0.61	.0	0.51A	120	0.0011	0.06	-		Ŭ	00			0.	
0.61 - 0.91	0.5C		9C			-		0	2C	14	18	68	
0.91 - 1.22													
1.22 - 1.52													
1.52 - 1.68			11C	0.025F									
Depth COLE Gravimetric/Volumetric Water 0 Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Ba										K sat K uns			
m		ou.	0.00 Bai		- m3/m3		J Dai T	Jui	mm	/h	mm/h		

0 - 0.04 0.04 - 0.3 0.3 - 0.61 0.61 - 0.91 0.91 - 1.22 1.22 - 1.52 1.52 - 1.68

COL **Project Name:** 

**Project Code:** COL Site ID: **B468** Observation ID: 1

Agency Name: **CSIRO** Division of Soils (QLD)

## **Laboratory Analyses Completed for this profile**

Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded Hydrogen Cation - meq per 100g of soil - Not recorded 15 NR CA

15\_NR\_H

15\_NR\_K Exch. basic cations (K++) - med per 100g of soil - Not recorded Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded Exch. basic cations (Na++) - meq per 100g of soil - Not recorded 15 NR MG 15\_NR\_NA

19B\_NR Calcium Carbonate (CaCO3) - Not recorded

2A1 Air-dry moisture content

3\_NR Electrical conductivity or soluble salts - Not recorded

pH of soil - Not recorded 4\_NR

Water soluble Chloride - Cl(%) - Not recordede 5\_NR

Organic carbon - Walkley and Black Total nitrogen (%) - Not recorded 6A1 7\_NR Available P (mg/kg) - Not recorded 9\_NR 9A\_NR Total element - P(%) - Not recorded

Gravel (%)

P10\_GRAV 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