Project Name: COL
Project Code: COL **Site ID:** B465 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: R.F. Isbell
Date Desc.: 26/07/61
Map Ref.: Sheet No. : 8456 1:100000
Northing/Long.: 147.863888888889
Easting/Lat.: -20.8916666666667
Locality: Brigalow experimental site.
Elevation: No Data
Rainfall: 0
Runoff: Slow
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: Puw
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 1.5 m deep,Unconsolidated material (unidentified)

Land Form

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

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Epicalcareous-Endohypersodic Self-Mulching Black Vertosol
Mapping Unit: N/A
Principal Profile Form: Ug5.16

ASC Confidence:
All necessary analytical data are available.
Great Soil Group: Black earth

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:
Tall Strata - Tree, , Isolated plants. *Species includes - Acacia harpophylla

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.15 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Strong grade of structure, <2 mm, Granular; Dry; Loose consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.5 (pH meter); Clear change to
B2	0.15 - 0.46 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 9.1 (pH meter); Gradual change to -
B2	0.46 - 0.76 m	Dark grey (10YR4/1-Moist); ; Medium clay; Moderate grade of structure, Lenticular; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , Nodules; Field pH 9 (pH meter); Gradual change to -
B2	0.76 - 0.91 m	Dark greyish brown (10YR4/2-Moist); ; Medium clay; Moderate grade of structure, Lenticular; Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, , Nodules; Field pH 9 (pH meter); Gradual change to -
B3	0.91 - 1.22 m	Yellowish brown (10YR5/4-Moist); ; Medium clay; Weak grade of structure, Lenticular; Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, , Nodules; Field pH 8.7 (pH meter); Gradual change to -
C	1.52 - 1.83 m	Yellowish brown (10YR5/5-Moist); ; Coarse sandy medium clay; Massive grade of structure; Moderately moist; Firm consistence; 20-50%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 9.5 (pH meter); Gradual change to -
C	2.13 - 2.29 m	Yellowish brown (10YR5/5-Moist); ; Coarse sandy medium clay; Massive grade of structure; Firm consistence; 20-50%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 9.4 (pH meter);

Morphological Notes

Observation Notes

4-15CM STRUCTURE MODERATE ANGULAR BLOCKY:MID-HIGH CLOSED FOREST BEFORE CLEARING:

Site Notes

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HAVILAH

Project Name: COL
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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 - 0.15	8.5H	0.05B	31.3K	10.1	0.54	0.69	0D			
0.15 - 0.46	9.1H	0.08B								
0.46 - 0.76	9H	0.28B								
0.76 - 0.91	9H	0.37B	14.3K	16	0.21	6.2	0D			
0.91 - 1.22	8.7H	0.5B								
1.52 - 1.83	9.5H	0.2B								
2.13 - 2.29	9.4H	0.24B								

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 - 0.15	1C	1.1A	39C	0.027F	0.113B				25C	14	12	43
0.15 - 0.46			42C									
0.46 - 0.76												
0.76 - 0.91	6.5C								20C	19	12	40
0.91 - 1.22												
1.52 - 1.83												
2.13 - 2.29												

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 - 0.15									
0.15 - 0.46									
0.46 - 0.76									
0.76 - 0.91									
0.91 - 1.22									
1.52 - 1.83									
2.13 - 2.29									

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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_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