Project Name: COL
Project Code: COL **Site ID:** B464 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: R.F. Isbell
Date Desc.: 04/08/61
Map Ref.: Sheet No. : 8456 1:100000
Northing/Long.: 147.652777777778
Easting/Lat.: -20.5055555555556
Locality:
Elevation: No Data
Rainfall: 0
Runoff: Slow
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: Plz
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Soil pit, 0.71 m deep,Basalt

Land Form

Rel/Slope Class: No Data
Morph. Type: Upper-slope
Elem. Type: No Data
Slope: 0 %
Pattern Type: No Data
Relief: 9 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Self-Mulching Black Vertosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Ug5.12
Great Soil Group: Black earth

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation:

Tall Strata - Tussock grass, , Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments: 0-2%, , , Andesite

Profile Morphology

A1	0 - 0.04 m	Very dark grey (2.5Y3/0-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Granular; Moderately moist; Very weak consistence; Field pH 7 (pH meter); Sharp change to -
B2	0.04 - 0.3 m	Very dark grey (2.5Y3/0-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; Field pH 7.4 (pH meter); Gradual change to -
B2	0.3 - 0.61 m	Very dark grey (2.5Y3/0-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Dry; Strong consistence; 0-2%, Basalt, coarse fragments; Field pH 7.7 (pH meter); Gradual change
BC	0.61 - 0.71 m	Very dark grey (2.5Y3/0-Moist); ; Heavy clay; Weak grade of structure, Lenticular; Moderately moist; Very firm consistence; 2-10%, Basalt, coarse fragments; Field pH 8.1 (pH meter); Gradual change to -
C	0.71 - 0.81 m	; Moderately moist; Very firm consistence;

Morphological Notes

C LB(2.5YR4/4) weathered basalt with veins of GB heavy clay.

Observation Notes

Site Notes

STRATHMORE

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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 - 0.04	7H	0.02B								
0.04 - 0.3	7.4H	0.01B	54.8K	36	0.42	0.21	4.4D			
0.3 - 0.61	7.7H	0.02B	54K	37.8	0.56	0.14	6.2D			
0.61 - 0.71	8.1H	0.04B								
0.71 - 0.81										

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 - 0.04		1.3A	175C	0.058F	0.112B			0	1C	8	12	75
0.04 - 0.3		0.92A	95C	0.049F	0.081B			0	2C	8	11	74
0.3 - 0.61								0	2C	9	12	75
0.61 - 0.71			102C									
0.71 - 0.81			690C									

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 - 0.04									
0.04 - 0.3									
0.3 - 0.61									
0.61 - 0.71									
0.71 - 0.81									

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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
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_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