Project Name: LBV
Project Code: LBV **Site ID:** B112 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Locality: Rolleston-Bauhinia Downs road 2.7 miles from Rolleston
Date Desc.: 01/10/48
Elevation: 213 metres
Map Ref.: Sheet No. : 8649 1:100000
Rainfall: 610
Northing/Long.: 148.666666666667
Runoff: Moderately rapid
Easting/Lat.: -24.4666666666667
Drainage: Moderately well drained

Geology

ExposureType: Auger boring
Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: TB
Substrate Material: Auger boring, 0.51 m deep,Slightly porous, Basalt

Land Form

Rel/Slope Class: Undulating plains <9m 3-10%
Pattern Type: Plain
Morph. Type: Mid-slope
Relief: No Data
Elem. Type: Hillslope
Slope Category: No Data
Slope: 0 %
Aspect: No Data

Surface Soil Condition (dry): Self-mulching, Cracking

Erosion:

Soil Classification

Australian Soil Classification:
Epicalcareous Self-Mulching Black Vertosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
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: Low Strata - Tussock grass, , . *Species includes - None recorded

Tall Strata - Tree, , Isolated plants. *Species includes - Eucalyptus dichromophloia, Acacia species

Surface Coarse Fragments: 2-10%, cobbly, 60-200mm, , Basalt

Profile Morphology

AB	0 - 0.1 m	Black (10YR2/1-Dry); ; Heavy clay; Strong grade of structure, Granular; Dry; Loose consistence; 0-2%, coarse gravelly, 20-60mm, coarse fragments; Field pH 8 (pH meter); Gradual change to -
B2	0.1 - 0.46 m	Black (10YR2/1-Dry); ; Heavy clay; Strong grade of structure, Angular blocky; Dry; Firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.2 (pH meter); Gradual change to -
C	0.51 - 0.66 m	; Field pH 9.1 (pH meter);

Morphological Notes

C Weathered basalt with secondary calcium carbonate

Observation Notes

Site Notes

ROLLESTON

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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 - 0.1	8H	0.03B	58.3K	39.4	1.07	0.11			98.9E	
0.1 - 0.46	8.2H	0.04B								
0.51 - 0.66	8.1H	0.05B								

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 - 0.1	0.02C	1.38E	15C	0.05F	0.085B				1D	8	14	76
0.1 - 0.46	0.04C											
0.51 - 0.66	37C											

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 - 0.1									
0.1 - 0.46									
0.51 - 0.66									

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Laboratory Analyses Completed for this profile

15_NR	Sum of Ex. cations + Ex. acidity - Not recorded
15_NR_CA	Exch. basic cations (Ca++) - 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
2_LOI	Loss on Ignition (%)
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
6Z	Organic carbon (%) - Not recorded
7_NR	Total nitrogen (%) - Not recorded
9_NR	Available P (mg/kg) - Not recorded
9A_NR	Total element - P(%) - Not recorded
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance