Project Name: BB

Project Code: BB Site ID: B340 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble Locality:

 Date Desc.:
 25/03/58
 Elevation:
 15 metres

 Map Ref.:
 Sheet No.: 9543
 1:100000
 Rainfall:
 1067

Northing/Long.: 153.154166666667 Runoff: Moderately rapid Easting/Lat.: -27.4763888888889 Drainage: Imperfectly drained

<u>Geology</u>

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

Geol. Ref.: Tb Substrate Material: Soil pit, 0.61 m deep,Basalt

Land Form

Rel/Slope Class:Undulating rises 9-30m 3-10%Pattern Type:RisesMorph. Type:Lower-slopeRelief:24 metresElem. Type:HillslopeSlope Category:No DataSlope:0 %Aspect:No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AHaplic Epipedal Grey VertosolPrincipal Profile Form:Dy4.12ASC Confidence:Great Soil Group:Prairie soil

All necessary analytical data are available.

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Tall Strata - Tussock grass, , . *Species includes - Digitaria didactyla

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

Very dark grey (10YR3/1-Moist); ; Light clay; Strong grade of structure, 2-5 mm, Granular; Moist; Weak consistence; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 5.8 (pH meter); Many, very fine (0-1mm) roots; Clear change to -

A12 0.1 - 0.16 m Dark greyish brown (10YR4/2-Moist); ; Light clay; Strong grade of structure, 2-5 mm,

Polyhedral; Moist; Weak consistence; Common (10 - 20 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; Field pH 6.3 (pH meter); Common, very fine (0-1mm) roots; Clear change to -

B21 0.18 - 0.32 m Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm,

Prismatic; Moderate grade of structure, 20-50 mm, Prismatic; Moist; Moderately plastic; Normal plasticity; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.7 (pH meter);

Common, very fine (0-1mm) roots; Gradual change to -

B22 0.35 - 0.6 m Olive brown (2.5Y4/4-Moist); ; Heavy clay; Strong grade of structure, Lenticular; Moist;

Moderately plastic; Normal plasticity; Field pH 8 (pH meter); Common, very fine (0-1mm) roots;

Gradual change to -

C 0.6 - 0.68 m Dark greyish brown (2.5Y4/2-Moist); , 5Y42, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm,

Distinct; Light clay (Light); Massive grade of structure; Field pH 8.7 (pH meter); Few, very fine

(0-1mm) roots:

Morphological Notes

C Soft weathered rock:

Observation Notes

VERY SLIGHT DEVELOPMENT OF CRABHOLE TYPE MICRORELIEF:

Site Notes

MANLY

Project Name: BB
Project Code: BB Site ID: B34
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Laboratory Test Results:

<u> Luboratory</u>		_	_			_					_	
Depth	pН	1:5 EC		hangeable Ma	Cations K	Na E	Exchangeable	CEC		ECEC	Е	SP
m		dS/m	Ca	Mg	N.	Cmol (+)	Acidity)/kg				9	%
0 - 0.1 0.1 - 0.16	5.8H 6.3H	0.02C 0.02C	5.9K	6.1	0.44	0.94		27.3	J		3	.44
0.18 - 0.32 0.35 - 0.6 0.6 - 0.68	6.7H 8H 8.7H	0.03C 0.07C 0.04C	11.9K	30	0.04	3.3		52.7	J		6	.26
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle CS	Size /	Analysis Silt (
m	%	%	mg/kg	%	%	%	Mg/m3			%		•
0 - 0.1		3.83E 3.01E	4C	0.023F	0.2	7B		1	15C	25	27	27
0.1 - 0.16		1.91E						24	21C	24	25	26
0.18 - 0.32		1.4E						1	12C	16	_	52
0.35 - 0.6	0.070	-						0	4C	25	29	39
0.6 - 0.68	0.050	;		0.012F	-			5	22C	49	18	13
Depth	COLE	DLE Gravimetric/Volumetric Water Contents Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar							K sa	ıt	K unsat	
m		Jai.	U.UJ Dai		g - m3/m		3 Dai 13	Dai	mm/	h	mm/h	

0 - 0.1 0.1 - 0.16 0.18 - 0.32 0.35 - 0.6 0.6 - 0.68

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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_CEC CEC - meq per 100g of soil - Not recorded

15_NR_KExch. basic cations (K++) - meq per 100g of soil - Not recorded15_NR_MGExch. basic cations (Mg++) - meq per 100g of soil - Not recorded15_NR_NAExch. basic cations (Na++) - meq per 100g of soil - Not recorded

19B_NR Calcium Carbonate (CaCO3) - Not recorded

2A1 Air-dry moisture content

3A_TSS Electrical conductivity or soluble salts - Total soluble salts %

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_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