

Project Name: RR **Site ID:** B567 **Observation ID:** 1
Project Code: RR **Agency Name:** CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	24/10/66	Elevation:	9 metres
Map Ref.:	Sheet No. : 9348 1:100000	Rainfall:	1105
Northing/Long.:	152.433333333333	Runoff:	Very slow
Easting/Lat.:	-24.8166666666667	Drainage:	Poorly drained

Geology

Exposure Type:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Czub	Substrate Material:	Auger boring, 1.1 m deep, Basalt

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain
Morph. Type:	No Data	Relief:	2 metres
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Epipedal Black Vertosol		Principal Profile Form:	Gn3.92
ASC 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 - Sod grass, <0.25m, Closed or dense. *Species includes - Dichanthium sericeum

Surface Coarse Fragments: 20-50%, coarse gravelly, 20-60mm, ,

Profile Morphology

A11	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); ; Light clay; Strong grade of structure, Granular; Many (>5 per 100mm ²) macropores, Moist; Firm consistence; 0-2%, Basalt, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.2 (pH meter); Many, fine (1-2mm) roots;
A12	0.05 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Angular blocky; 2-5 mm, Angular blocky; Many (>5 per 100mm ²) macropores, Moist; Firm consistence; 0-2%, Basalt, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6 (pH meter); Many, fine (1-2mm) roots; Gradual change to -
A12	0.1 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); ; Light medium clay; Strong grade of structure, 20-50 mm, Angular blocky; 2-5 mm, Angular blocky; Moist; Firm consistence; 0-2%, Basalt, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.4 (pH meter); Common, fine (1-2mm) roots;
A12	0.2 - 0.25 m	Very dark greyish brown (10YR3/2-Moist); ; Light medium clay; Strong grade of structure, 20-50 mm, Angular blocky; 5-10 mm, Angular blocky; Moist; Firm consistence; 0-2%, Basalt, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.5 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
B2	0.25 - 0.3 m	Dark greyish brown (10YR4/2-Moist); , 5YR34, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Light medium clay; Strong grade of structure, 20-50 mm, Angular blocky; 10-20 mm, Angular blocky; Moist; Firm consistence; 0-2%, Basalt, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.6 (pH meter); Few, fine (1-2mm) roots;
B2	0.3 - 0.6 m	Dark greyish brown (10YR4/2-Moist); , 5YR34, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Light medium clay; Strong grade of structure, 20-50 mm, Angular blocky; 10-20 mm, Angular blocky; Moist; Firm consistence; 0-2%, Basalt, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.5 (pH meter); Diffuse change to -
B3	0.6 - 0.8 m	Dark greyish brown (2.5Y4/3-Moist); , 10YR56, 20-50% , 5-15mm, Distinct; , 5YR48, 20-50% , 5-15mm, Distinct; Light medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; 5-10 mm, Angular blocky; Moist; Firm consistence; Moderately plastic; 10-20%, Basalt, coarse fragments; Common (10 - 20 %), Ferromanganiferous, , Nodules; Field pH 6.8 (pH meter);

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B3 0.8 - 0.9 m Dark greyish brown (2.5Y4/3-Moist); , 10YR56, 20-50% , 5-15mm, Distinct; , 5YR48, 20-50% , 5-15mm, Distinct; Light medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; 5-10 mm, Angular blocky; Moist; Moderately plastic; 10-20%, Basalt, coarse fragments; Common (10 - 20 %), Ferromanganeseferous, , Nodules; Field pH 7.6 (pH meter); Diffuse change to -

BC 0.9 - 1.12 m Grey (2.5Y5/1-Moist); , 10YR56, 20-50% , Distinct; , 10YR68, 20-50% , Distinct; Heavy clay; Moist; Very plastic; 10-20%, Basalt, coarse fragments; Field pH 8 (pH meter);

C 1.12 - 1.2 m ; Field pH 8 (pH meter);

Morphological Notes

C Mottled G;GB;YB;light clay as matrix between BA boulders.

Observation Notes

0-5CM POROUS GRANULAR STRUCTURE.

Site Notes

BUNDABERG

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
17A1	Total potassium - X-ray fluorescence
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9A1	Total phosphorus - X-ray fluorescence
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO ₃ extractable
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H ₂ SO ₄ (BSES)
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
P3A1	Bulk density - g/cm ³
P3B3VLe004	0.04 BAR Moisture m3/m ³ - Volumetric using undisturbed 60mm diameter and 34mm height core on suction plate
P3B3VLe01	0.1 BAR Moisture m3/m ³ - Volumetric using undisturbed 60mm diameter and 34mm height core on suction plate
P3B3VLe03	0.3 BAR Moisture m3/m ³ - Volumetric using undisturbed 60mm diameter and 34mm height core on suction plate
P3B3VLe06	0.6 BAR Moisture m3/m ³ - Volumetric using undisturbed 60mm diameter and 34mm height core on pressure plate
P3B3VLe15	15 BAR Moisture m3/m ³ - Volumetric using undisturbed 60mm diameter and 34mm height core on pressure plate
P3B3VLe2	2 BAR Moisture m3/m ³ - Volumetric using undisturbed 60mm diameter and 34mm height core on pressure plate
P3B3VLe7	7 BAR Moisture m3/m ³ - Volumetric using undisturbed 60mm diameter and 34mm height core on pressure plate