

**Project Name:** BB  
**Project Code:** BB **Site ID:** B345 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	G.G. Beckmann	<b>Locality:</b>	
<b>Date Desc.:</b>	08/04/58	<b>Elevation:</b>	91 metres
<b>Map Ref.:</b>	Sheet No. : 9542 1:100000	<b>Rainfall:</b>	1384
<b>Northing/Long.:</b>	153.205277777778	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-27.645833333333	<b>Drainage:</b>	Moderately well drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Pzn	<b>Substrate Material:</b>	Soil pit, 0.44 m deep, Phyllite

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	30 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:** Minor (sheet)

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Magnesian Subnatric Yellow Sodosol		<b>Principal Profile Form:</b>	Dy5.41
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Yellow podzolic soil
All necessary analytical data are available.			

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

**Vegetation:** Low Strata - Tussock grass, . . \*Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Isolated plants. \*Species includes - None Recorded

**Surface Coarse Fragments:** No surface coarse fragments

**Profile Morphology**

A11	0 - 0.08 m	Very dark grey (10YR3/1-Moist); ; Coarse sandy loam; Massive grade of structure; Moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.6 (pH meter); Common, very fine (0-1mm) roots; Clear change to -
A12	0.08 - 0.15 m	Grey (10YR5/1-Moist); ; Coarse sandy loam; Massive grade of structure; Moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
A2	0.15 - 0.25 m	Pale yellow (2.5Y7/4-Moist); ; Clayey coarse sand; Massive grade of structure; Moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
A3	0.25 - 0.3 m	Pale olive (5Y6/3-Moist); ; Clayey coarse sand (Heavy); Massive grade of structure; Moist; Very weak consistence; 10-20%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 5.8 (pH meter); Sharp change to -
B2	0.3 - 0.44 m	Brownish yellow (10YR6/8-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Very plastic; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.9 (pH meter); Few, coarse (>5mm) roots; Gradual change to -
C	0.44 - 0.55 m	; Field pH 6 (pH meter);

**Morphological Notes**

C Mottled LG + YB clayey weathered rock: massive: friable:

**Observation Notes**

**Site Notes**

MT COTTON

**Observation ID: 1**

**Observation ID: 1**

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.08	5.6H	0.01C	0.26K	0.84	0.21	0.16		18.8J	0.85
0.08 - 0.15	5.5H	0.01C							
0.15 - 0.25	5.5H	0.01C							
0.25 - 0.3	5.8H	0.01C							
0.3 - 0.44	5.9H	0.01C	0.05K	3.8	0.1	0.64		13.3J	4.81
0.44 - 0.55	6H	0.01C							

[illegible][illegible]

**Project Name:** BB  
**Project Code:** BB      **Site ID:** B345      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**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_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
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
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