

**Project Name:** BB  
**Project Code:** BB **Site ID:** B351 **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>	27/05/58	<b>Elevation:</b>	15 metres
<b>Map Ref.:</b>	Sheet No. : 9542 1:100000	<b>Rainfall:</b>	1194
<b>Northing/Long.:</b>	153.146666666667	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	-27.736666666667	<b>Drainage:</b>	Poorly 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>	Auger boring, 1.4 m deep, Clay

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Terrace (alluvial)
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	12 metres
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Episodic-Epiacidic Massive Grey Vertosol		<b>Principal Profile Form:</b>	Dy3.11
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Grey clay
All necessary analytical data are available.			

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

**Vegetation:** Low Strata - Sedge, . . \*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**

A1	0 - 0.05 m	Dark grey (10YR4/1-Moist); ; Clay loam; Weak grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 5.3 (pH meter); Many, very fine (0-1mm) roots; Abrupt change to -
B1	0.05 - 0.15 m	Dark grey (10YR4/1-Moist); , 10YR42; , 2.5Y44; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 5.5 (pH meter); Few, very fine (0-1mm)
B21	0.15 - 0.35 m	Dark grey (10YR4/1-Moist); , 10YR42; , 2.5Y44; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 5.4 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B22	0.35 - 0.45 m	Dark grey (10YR4/1-Moist); , 2.5Y53; , 10YR58; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Moderately plastic; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B23	0.45 - 0.75 m	Grey (10YR5/1-Moist); , 2.5Y53; , 10YR56; Heavy clay; Massive grade of structure; Moist; Moderately plastic; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 5.4 (pH meter); Gradual change to -
B24	0.75 - 0.95 m	Grey (10YR5/1-Moist); , 2.5Y53; Heavy clay; Massive grade of structure; Moist; Very plastic; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 4.9 (pH meter); Gradual change to -
BC	0.95 - 1.35 m	Grey (10YR5/1-Moist); , 2.5Y52; , 2.5Y68; Heavy clay; Massive grade of structure; Moist; Very plastic; Field pH 4.6 (pH meter);
C	1.37 - 1.83 m	; Heavy clay;
C	1.83 - 2.54 m	; Heavy clay;
C	2.54 - 2.97 m	; Heavy clay;
C	2.97 - 3.51 m	; Heavy clay;

**Morphological Notes**

C Layer continues

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**Observation Notes**

CLASSIFIED AS GREY CLAY - ACID VARIANT:

**Site Notes**

LOGANLEA

**Observation ID: 1**

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	mm/h	mm/h
m		g/g - m3/m3								
0 - 0.05										
0.05 - 0.15										
0.15 - 0.35										
0.35 - 0.45										
0.45 - 0.75										
0.75 - 0.95										
0.95 - 1.35										
1.37 - 1.83										
1.83 - 2.54										
2.54 - 2.97										
2.97 - 3.51										

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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_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