

**Project Name:** BL  
**Project Code:** BL **Site ID:** B317 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	G.D. Hubble	<b>Locality:</b>	
<b>Date Desc.:</b>	12/07/57	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 8944 1:100000	<b>Rainfall:</b>	660
<b>Northing/Long.:</b>	150.463888888889	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-26.55	<b>Drainage:</b>	Imperfectly drained

**Geology**

<b>ExposureType:</b>	Existing vertical exposure	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	T	<b>Substrate Material:</b>	Existing vertical exposure, 0.99 m deep, No Data

**Land Form**

<b>Rel/Slope Class:</b>	Rolling plains <9m 10-32%	<b>Pattern Type:</b>	Peneplain
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<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
Haplic Eutrophic Brown Kandosol		<b>Principal Profile Form:</b>	Gn2.22
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Yellow earth
All necessary analytical data are available.			

**Site Disturbance:**

**Vegetation:** Low Strata - Tussock grass, , . \*Species includes - Aristida species  
Mid Strata - Tree, 3.01-6m, Closed or dense. \*Species includes - Acacia species  
Tall Strata - Tree, 6.01-12m, Closed or dense. \*Species includes - Eucalyptus crebra

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

**Profile Morphology**

A1	0 - 0.08 m	Reddish brown (5YR4/4-Moist); ; Clay loam; Moderate grade of structure, 10-20 mm, Polyhedral; Moist; Very weak consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 5.4 (pH meter); Many, very fine (0-1mm) roots; Gradual change to -
B11	0.1 - 0.28 m	Yellowish red (5YR5/6-Moist); ; Light clay; Weak grade of structure, 10-20 mm, Polyhedral; Moist; Weak consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 5.6 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
B12	0.28 - 0.51 m	Yellowish brown (10YR5/6-Moist); ; Light medium clay; Massive grade of structure; Moist; Weak consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 6.4 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
B21	0.51 - 0.74 m	Yellowish brown (10YR5/4-Moist); ; Medium clay; Massive grade of structure; Dry; Very firm consistence; Few (2 - 10 %), Ferruginous, , Nodules; Field pH 7.3 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B22	0.74 - 0.86 m	Yellowish brown (10YR5/8-Dry); , 10YR71, 20-50% , 5-15mm, Distinct; , 10YR62, 20-50% , 5-15mm, Distinct; Heavy clay; Weak grade of structure, 10-20 mm, Polyhedral; Dry; Very firm consistence; Few (2 - 10 %), , , Nodules; Field pH 7.7 (pH meter); Gradual change to -
B3	0.86 - 0.97 m	Yellowish brown (10YR5/6-Moist); , 10YR61, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, Prominent; Heavy clay; Weak grade of structure, Lenticular; Dry; Very firm consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 7.8 (pH meter); Gradual change to -
C	0.99 - 1.07 m	Red (2.5YR4/6-Dry); , 10YR81, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm, Prominent; Massive grade of structure; Dry; , Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 8 (pH meter);
C	1.07 - 1.17 m	;

**Morphological Notes**

C Hard indurated rock-like mottled zone:

**Observation Notes**

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**Site Notes**  
CHINCHILLA

**Observation ID: 1**

**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				cmol (+)/kg				%
0 - 0.08	5.4H	0.01C	2.8K	2.3	0.12	0.15		13.4J		1.12
0.1 - 0.28	5.6H	0.01C								
0.28 - 0.51	6.4H	0.01C	1.1K	2.8	0.02	0.61		8J		7.63
0.51 - 0.74	7.3H	0.02C								
0.74 - 0.86	7.7H	0.04C	1.6K	6.3	0.02	2.8		13J		21.54
0.86 - 0.97	7.8H	0.05C								
0.99 - 1.07	8H	0.05C								

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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
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 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