

**Project Name:** CL  
**Project Code:** CL                      **Site ID:** B339                      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	C.H. Thompson	<b>Locality:</b>	
<b>Date Desc.:</b>	06/11/57	<b>Elevation:</b>	15 metres
<b>Map Ref.:</b>	Sheet No. : 9544    1:100000	<b>Rainfall:</b>	1524
<b>Northing/Long.:</b>	153.015277777778	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	-26.8444444444444	<b>Drainage:</b>	Very poorly drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Qa	<b>Substrate Material:</b>	Auger boring, 2 m deep, Unconsolidated material (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	Gently undulating plains <9m    1-3%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Drainage depression	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	0 degrees

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Melacic-Bleached Chomosolic Oxyaquic Hydrosol		<b>Principal Profile Form:</b>	Dg4.81
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Humic gley

Analytical data are incomplete but reasonable confidence.

**Site Disturbance:** No effective disturbance. Natural

**Vegetation:** Low Strata - , , . \*Species includes - Xanthorrhoea species  
Mid Strata - Shrub, , . \*Species includes - None recorded  
Tall Strata - Tree, 6.01-12m, Closed or dense. \*Species includes - Trigonella suavissima, Melaleuca decora, Eucalyptus robusta

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

**Profile Morphology**

A11	0 - 0.18 m	Black (10YR2/1-Moist); ; Loam (Fibric); Moderate grade of structure, 2-5 mm, Granular; Moist; Weak consistence; Field pH 5.2 (pH meter); Abundant, fine (1-2mm) roots; Gradual change to -
A12	0.18 - 0.52 m	Very dark grey (10YR3/1-Moist); ; Loam (Fibric); Strong grade of structure, 5-10 mm, Polyhedral; Moist; Weak consistence; Field pH 5.2 (pH meter); Many, fine (1-2mm) roots;
A13	0.58 - 0.76 m	Very dark grey (10YR3/1-Moist); ; Sandy loam; Weak grade of structure, 5-10 mm, Angular blocky; Moist; Very weak consistence; Field pH 5.1 (pH meter); Many, fine (1-2mm) roots; Gradual change to -
A14	0.76 - 1.07 m	Dark grey (10YR4/1-Moist); ; Clayey sand; Weak grade of structure, 5-10 mm, Angular blocky; Moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.3 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
A2	1.12 - 1.3 m	White (10YR8/1-Moist); ; Sand; Massive grade of structure; Moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.9 (pH meter); Few, very fine (0-1mm) roots; Sharp change to -
B2	1.3 - 1.57 m	Light grey (10YR7/2-Moist); ; Sandy medium clay; Weak grade of structure, Prismatic; Massive grade of structure; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B3	1.65 - 1.93 m	Light grey (10YR7/1-Moist); , 7.5YR54, 10-20% , 15-30mm, Faint; , 10-20% , 15-30mm, Faint; Sandy clay loam; Massive grade of structure; Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Field pH 5.5 (pH meter); Gradual change to -
B3	1.98 - 2.13 m	Light grey (10YR7/1-Moist); , 10YR61, 10-20% , 15-30mm, Faint; , 10-20% , 15-30mm, Faint; Sandy medium clay; Massive grade of structure; Wet; Moderately plastic; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Field pH 5.7 (pH meter); Gradual change to -

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BC            2.13 - 2.36 m    Light grey (10YR7/1-Moist); , 10YR61, 10-20% , 15-30mm, Faint; , 10-20% , 15-30mm, Faint;  
Clayey coarse sand; Massive grade of structure; Wet; Moderately plastic; 2-10%, medium  
gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Field pH 5.7 (pH meter);

**Morphological Notes**

**Observation Notes**

WATER TABLE NEAR SURFACE FOR MOST OF THE YEAR: 0-193CM PROMINENT OCHEROUS FLECKING: CLAY BALLS IN LOWER A2:

**Site Notes**

BEERWAH

**Observation ID: 1**

**Laboratory Test Results:**

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.18	5.2H	0.02C	0.02K	0.16	0.1	0.08		23.4J		0.34
0.18 - 0.52	5.2H	0.02C								
0.58 - 0.76	5.1H	0.01C								
0.76 - 1.07	5.3H	0.01C								
1.12 - 1.3	5.9H	0.01C								
1.3 - 1.57	5.5H	0.01C	0.2K	0.7	0.04	0.16		8.2J		1.95
1.65 - 1.93	5.5H	0.01C								
1.98 - 2.13	5.7H	0.01C								
2.13 - 2.36	5.7H	0.01C								

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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