

**Project Name:** CL  
**Project Code:** CL **Site ID:** B275 **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>	20/09/55	<b>Elevation:</b>	30 metres
<b>Map Ref.:</b>	Sheet No. : 9446 1:100000	<b>Rainfall:</b>	1250
<b>Northing/Long.:</b>	152.952777777778	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	-25.918888888889	<b>Drainage:</b>	Imperfectly drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Jm	<b>Substrate Material:</b>	Auger boring, 1.7 m deep, No Data

**Land Form**

<b>Rel/Slope Class:</b>	Rolling rises 9-30m 10-32%	<b>Pattern Type:</b>	Low hills
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0.8 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Hardsetting

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Bleached-Vertic Magnesic Brown Kurosol		<b>Principal Profile Form:</b>	Dy5.41
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Lateritic podzolic soil

All necessary analytical data are available.

**Site Disturbance:** No effective disturbance other than grazing by hoofed animals

**Vegetation:** Low Strata - , , . \*Species includes - Xanthorrhoea species

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

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

**Profile Morphology**

A1	0 - 0.05 m	Light brownish grey (10YR6/2-Dry); ; Loamy fine sand; Weak grade of structure, 2-5 mm, Granular; Moist; Very weak consistence; Field pH 5.3 (pH meter); Many, very fine (0-1mm) roots; Clear change to -
A2	0.08 - 0.23 m	Very pale brown (10YR7/3-Dry); ; Loamy fine sand; Weak grade of structure, 2-5 mm, Granular; Moist; Very weak consistence; Field pH 5 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
A3	0.23 - 0.38 m	Pale yellow (2.5Y7/4-Dry); ; Sand; Massive grade of structure; Moist; Very weak consistence; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 4.9 (pH meter); Common, very fine (0-1mm) roots; Sharp change to -
B2	0.38 - 0.53 m	Strong brown (7.5YR5/6-Moist); , 10R48, 10-20% , 15-30mm, Prominent; , 10YR71, 10-20% , 15-30mm, Prominent; Heavy clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 5.1 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
B2	0.58 - 0.99 m	White (10YR8/1-Moist); , 10R36, 10-20% , Prominent; , 7.5YR58, 10-20% , Prominent; Heavy clay; Strong grade of structure, 50-100 mm, Prismatic; Moist; Firm consistence; Slightly plastic; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 5.2 (pH meter); Gradual change to -
C	1.75 - 2.18 m	White (10YR8/1-Moist); , 10R36; Medium clay; Massive grade of structure; Moist; Firm consistence; Field pH 4.9 (pH meter);

**Morphological Notes**

**Observation Notes**

0-23CM POROUS GRANULAR STRUCTURE : GLEYED LATERITIC PODZOLIC SOIL

**Site Notes**

TIN CAN BAY

**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 - 0.05	5.3H	0.02B	0.17K	0.33	0.1	0.02	2.7D			
0.08 - 0.23	5H	0.01B								
0.23 - 0.38	4.9H	0.02B								
0.38 - 0.53	5.1H	0.04B	0.07K	5	0.1	0.26	12.1D			
0.58 - 0.99	5.2H	0.06B								
1.75 - 2.18	4.9H	0.07B	0.2K	4	0.1	0.23	2.3D			

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size	Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.05		0.41A	2C	0.006F	0.03B			0	34C	58	4	2
0.08 - 0.23		0.38A										
0.23 - 0.38		0.63A						0	39C	51	3	5
0.38 - 0.53		0.6A		0.006F				0	20C	22	7	51
0.58 - 0.99												
1.75 - 2.18		0.02A		0.006F				0	42C	21	15	22

[illegible]

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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_H	Hydrogen Cation - 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
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6A1	Organic carbon - Walkley and Black
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