

**Project Name:** GYC  
**Project Code:** GYC      **Site ID:** B529      **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>	20/11/63	<b>Elevation:</b>	50 metres
<b>Map Ref.:</b>	Sheet No. : 9446 1:100000	<b>Rainfall:</b>	1116
<b>Northing/Long.:</b>	152.569444444444	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	-25.997222222222	<b>Drainage:</b>	Imperfectly drained

#### Geology

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	J-Ky	<b>Substrate Material:</b>	Auger boring, 1 m deep, Unconsolidated material (unidentified)

#### Land Form

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Low hills
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Drainage depression	<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
Sodic Kandosolic Redoxic Hydrosol		<b>Principal Profile Form:</b>	Gn2.94
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Gleyed podzolic soil

Analytical data are incomplete but reasonable confidence.

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

**Vegetation:** Low Strata - Tussock grass, , Mid-dense. \*Species includes - Bothriochloa species  
Tall Strata - Tree, , Mid-dense. \*Species includes - Eucalyptus propinqua, Eucalyptus resinifera

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

#### Profile Morphology

A1	0 - 0.18 m	Very dark greyish brown (10YR3/2-Moist); ; Silty loam; Weak grade of structure, 5-10 mm, Subangular blocky; Common (1-5 per 0.01m2) Medium (2-5mm) macropores, Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, coarse fragments; Field pH 5.6 (pH meter); Common, fine (1-2mm) roots; Clear change to -
A2	0.18 - 0.33 m	Light brownish grey (10YR6/2-Moist); White (10YR8/2-Dry); , 10YR63, 20-50% , 5-15mm, Faint; , 10YR42, 20-50% , 5-15mm, Faint; Silty loam (Heavy); Massive grade of structure; Many (>5 per 0.01m2) Coarse (>5mm) macropores, Dry; Firm consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.1 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B1	0.33 - 0.51 m	Light brownish grey (10YR6/2-Moist); , 10YR42, 20-50% , 5-15mm, Prominent; , 7.5YR44, 20-50% , 5-15mm, Prominent; Silty clay loam (Heavy); Massive grade of structure; Dry; Very firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Field pH 6 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
B21	0.51 - 0.76 m	Brown (7.5YR4/4-Moist); , 10YR42, 20-50% , 5-15mm, Distinct; , 10YR62, 20-50% , 5-15mm, Distinct; Silty medium clay; Massive grade of structure; Dry; Strong consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Field pH 5.8 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
B22	0.76 - 0.99 m	Light yellowish brown (10YR6/4-Moist); , 7.5YR54, 20-50% , 5-15mm, Distinct; , 10YR72, 20-50% , 5-15mm, Distinct; Silty medium clay; Massive grade of structure; Moderately moist; Very firm consistence; Field pH 5.4 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
BC	0.99 - 1.32 m	Brownish yellow (10YR6/7-Moist); , 10YR62, 20-50% , 5-15mm, Prominent; , 10YR52, 20-50% , 5-15mm, Prominent; Silty medium clay; Massive grade of structure; Moist; Firm consistence; Field pH 5.1 (pH meter);

#### Morphological Notes

#### Observation Notes

SUBSTRATE IS LOCAL ALLUVIUM:

#### Site Notes

GUNALDA

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**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 - 0.18	5.9H	0.02B	2.2K	3.5	0.25	0.37	11.1D			
0.18 - 0.33	6.1H	0.01B	1.1K	2.6	0.12	1.1	9.4D			
0.33 - 0.51	6H	0.01B								
0.51 - 0.76	5.8H	0.02B	2.4K	3.8	0.08	0.91	10.1D			
0.76 - 0.99	5.4H	0.03B								
0.99 - 1.32	5.1H	0.06B								

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 - 0.18		1.78A	9C	0.05F	0.178B				2C	23	42	28
0.18 - 0.33												
0.33 - 0.51												
0.51 - 0.76		0.23A		0.026F					3C	27	39	31
0.76 - 0.99												
0.99 - 1.32				0.018F								

[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_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