

**Project Name:** GYC  
**Project Code:** GYC      **Site ID:** B535      **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>	23/01/64	<b>Elevation:</b>	80 metres
<b>Map Ref.:</b>	Sheet No. : 9445 1:100000	<b>Rainfall:</b>	0
<b>Northing/Long.:</b>	152.633333333333	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	-26.202777777778	<b>Drainage:</b>	Imperfectly drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	R-jy	<b>Substrate Material:</b>	Soil pit, 0.36 m deep, Shale

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<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 %	<b>Aspect:</b>	No Data

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Magnesian Mottled-Subnatric Grey Sodosol		<b>Principal Profile Form:</b>	Dy3.41
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Soloth
All necessary analytical data are available.			

**Site Disturbance:** Limited clearing, for example selective logging

**Vegetation:** Low Strata - Tussock grass, , . \*Species includes - Bothriochloa decipiens  
Tall Strata - Tree, 6.01-12m, Mid-dense. \*Species includes - None Recorded

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

**Profile Morphology**

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Loam; Weak grade of structure, 2-5 mm, Granular; Few (<1 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Weak consistence; 20-50%, coarse gravelly, 20-60mm, Shale, coarse fragments; Field pH 5.7 (pH meter); Common, fine (1-2mm) roots; Clear change to -
A2	0.1 - 0.25 m	Very dark greyish brown (10YR3/2-Moist); ; Loam; Weak grade of structure, 5-10 mm, Angular blocky; Few (<1 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Weak consistence; 20-50%, coarse gravelly, 20-60mm, Shale, coarse fragments; Field pH 6 (pH meter); Few, fine (1-2mm) roots; Sharp change to -
B2	0.25 - 0.36 m	Grey (10YR6/1-Moist); , 10YR81, 20-50% , 5-15mm, Distinct; , 10YR68, 20-50% , 5-15mm, Distinct; Light clay; Moderate grade of structure, 100-200 mm, Columnar; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Very firm consistence; 2-10%, Shale, coarse fragments; Field pH 6.3 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
C	0.36 - 0.43 m	; Field pH 6.2 (pH meter);

**Morphological Notes**

C Brown (7.5YR5/8) weathered shale with clay veins.

**Observation Notes**

0-10CM POROUS GRANULAR STRUTURE.

**Site Notes**

GYMPIE

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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 - 0.1	5.7H	0.01B	2K	2.8	0.43	0.13	8D			
0.1 - 0.25	6H	0.01B	0.66K	2.2	0.16	0.2	5.3D			
0.25 - 0.36	6.3H	0.01B	0.36K	8.9	0.18	1.29	4.6D			
0.36 - 0.43	6.2H	0.02B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		2.18A	10C	0.02F	0.185B			36	15C	41	25	14
0.1 - 0.25		0.74A			0.065B			40	19C	42	24	13
0.25 - 0.36		0.33A		0.007F				8	10C	32	22	34
0.36 - 0.43						2.16B		59	8C	29	20	44

Depth	COLE	Sat.	Gravimetric/Volumetric Water Contents	K sat	K unsat
m			0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar	mm/h	mm/h
			g/g - m3/m3		
0 - 0.1					
0.1 - 0.25					
0.25 - 0.36					
0.36 - 0.43					

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**Laboratory Analyses Completed for this profile**

10A_NR	Total element - S(%) - Not recorded
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
17A_NR	Total element - K(%) - 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