Project Name: GYC
Project Code: GYC **Site ID:** B525 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 19/11/63
Map Ref.: Sheet No. : 9445 1:100000
Northing/Long.: 152.586111111111
Easting/Lat.: -26.2138888888889
Locality:
Elevation: 91 metres
Rainfall: 1143
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

ExposureType: Soil pit
Geol. Ref.: R-Jy
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Soil pit, 0.48 m deep,Sandstone

Land Form

Rel/Slope Class: No Data
Morph. Type: Flat
Elem. Type: No Data
Slope: 0 %
Pattern Type: Low hills
Relief: 30 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Magnesic Natric Brown Kurosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy3.41
Great Soil Group: Soloth

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

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.04 m	Dark greyish brown (10YR4/2-Moist); ; Fine sandy loam (Light); Weak grade of structure, 2-5 mm, Granular; Moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, coarse fragments; Field pH 5.5 (pH meter); Abrupt change to -
A2	0.04 - 0.22 m	Pale brown (10YR6/3-Moist); Very pale brown (10YR7/3-Dry); , 10YR66, 20-50% , 0-5mm, Faint; , 20-50% , 0-5mm, Faint; Clayey fine sand; Massive grade of structure; Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Field pH 5.7 (pH meter); Abrupt, Irregular change to -
B2	0.22 - 0.33 m	Yellowish brown (10YR5/8-Moist); , 2.5YR46, 20-50% , 5-15mm, Distinct; , 10YR52, 20-50% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, 100-200 mm, Columnar; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Sandstone, coarse fragments; Field pH 5.5 (pH meter); Clear change to -
B3	0.33 - 0.48 m	Strong brown (7.5YR5/8-Moist); , 10YR71, 20-50% , 5-15mm, Distinct; , 2.5YR46, 20-50% , 5-15mm, Distinct; Light medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, Sandstone, coarse fragments; Field pH 5.2 (pH meter); Clear change to -
C	0.48 - 0.66 m	Strong brown (7.5YR5/8-Moist); , 2.5Y72, 10-20% , 15-30mm, Distinct; , 10-20% , 15-30mm, Distinct; Light clay; Massive grade of structure; Moist; Firm consistence; 10-20%, coarse gravelly, 20-60mm, Sandstone, coarse fragments; Field pH 5 (pH meter);

Morphological Notes

Observation Notes

0-4CM POROUS GRANULAR STRUCTURE.

Site Notes

GYMPIE

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.04	5.5H	0.01B	1.2K	0.91						
0.04 - 0.22	5.7H	0.01B	0.05K	0.43	0.12	0.08	4.2D			
0.22 - 0.33	5.5H	0.03B	0.02K	5.1	0.17	1.3	11.3D			
0.33 - 0.48	5.2H	0.05B								
0.48 - 0.66	5H	0.07B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.04		1.58A	3C	0.012F	0.104B			1	35C	42	12	7
0.04 - 0.22		0.29A	2C	0.009F				4	33C	43	15	9
0.22 - 0.33		0.32A		0.016F				1	21C	24	14	41
0.33 - 0.48												
0.48 - 0.66												

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0 - 0.04									
0.04 - 0.22									
0.22 - 0.33									
0.33 - 0.48									
0.48 - 0.66									

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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 recordede
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
MIN_EC	Exchange Capacity - Minerology
MIN_NR_K2O	Kaolin minerals
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
XRD_C_Il	Illite - X-Ray Diffraction
XRD_C_Is	Interstratified clay minerals - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction