

Project Name: GYC
Project Code: GYC **Site ID:** B530 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	21/11/63	Elevation:	85 metres
Map Ref.:	Sheet No. : 9445 1:100000	Rainfall:	0
Northing/Long.:	152.752777777778	Runoff:	Slow
Easting/Lat.:	-26.188888888889	Drainage:	Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Low hills
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Valley flat	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Magnesian Dermosolic Redoxic Hydrosol		Principal Profile Form:	Gn3.74
ASC Confidence:		Great Soil Group:	Gleyed podzolic soil
Analytical data are incomplete but reasonable confidence.			

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:

Tall Strata - Tree, , Isolated plants. *Species includes - Eucalyptus species

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); ; Silty clay loam; Weak grade of structure, 5-10 mm, Subangular blocky; Few (<1 per 100mm ²) macropores, Moist; Weak consistence; 0-2%, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6 (pH meter); Abundant, fine (1-2mm) roots; Clear change to -
A2	0.05 - 0.2 m	Yellowish brown (10YR5/6-Moist); ; Silty clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; Few (<1 per 100mm ²) macropores, Moist; Weak consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 5.7 (pH meter); Many, fine (1-2mm) roots; Gradual change to -
B21	0.2 - 0.38 m	Yellowish brown (10YR5/8-Moist); ; Silty medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Few (<1 per 100mm ²) macropores, Moist; Weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.2 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B21	0.38 - 0.53 m	Yellowish brown (10YR5/8-Moist); ; Silty medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Weak consistence; 0-2%, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 5.3 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B22	0.53 - 0.66 m	Yellowish brown (10YR5/8-Moist); ; Silty medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; 0-2%, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 4.7 (pH meter); Gradual change to -
B22	0.66 - 1.07 m	Yellowish brown (10YR5/8-Moist); ; 7.5YR56, 20-50% , 5-15mm, Distinct; , 2.5Y84, 20-50% , 5-15mm, Distinct; Silty medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 4.9 (pH meter); Gradual change to -
B3	1.07 - 1.32 m	Yellowish brown (10YR5/8-Moist); ; 7.5YR56, 20-50% , 5-15mm, Distinct; , 2.5Y84, 20-50% , 5-15mm, Distinct; Silty medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 5.3 (pH meter); Gradual change to -

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B3	1.32 - 1.88 m	Brown (7.5YR5/4-Moist); , 10YR71, 20-50% , 5-15mm, Distinct; , 10YR58, 20-50% , 5-15mm, Distinct; Light medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 5.7 (pH meter); Gradual change to -
	1.88 - 2.87 m	Grey (5Y6/1-Moist); , 2.5Y66, 20-50% , 5-15mm, Prominent; , 5YR56, 20-50% , 5-15mm, Prominent; Light medium clay; Firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.3 (pH meter);

Morphological Notes

Observation Notes

Site Notes

GREENS CREEEK

Observation ID: 1

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			
0 - 0.05	6H	0.04B	4.5K	2	2.1	0.33	14.4D		
0.05 - 0.2	5.7H	0.02B	3.4K	0.62	0.8	0.1	8D		
0.2 - 0.38	6.2H	0.02B	3.6K	0.35	0.08	0.12	7.8D		
0.38 - 0.53	5.3H	0.02B							
0.53 - 0.66	4.7H	0.02B							
0.66 - 1.07	4.9H	0.02B	0.1K	1.2	0.06	0.16	9.7D		
1.07 - 1.32	5.3H	0.01B							
1.32 - 1.88	5.7H	0.02B	0.02K	5.8	0.08	0.66	10.7D		
1.88 - 2.87	6.3H	0.04B							

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.05		3.83A	10C	0.058F	0.44B			11	2C	22	32	33
0.05 - 0.2		1.62A						3	2C	22	36	36
0.2 - 0.38		0.65A		0.027F		1.27B		6	2C	22	34	41
0.38 - 0.53		0.34A						10	3C	24	35	41
0.53 - 0.66		0.3A						8	2C	25	35	41
0.66 - 1.07				0.03F				3	1C	24	37	40
1.07 - 1.32								5	2C	23	40	37
1.32 - 1.88				0.023F				1	1C	15	40	46
1.88 - 2.87				0.012F				6	2C	20	40	33

[illegible]

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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