

Project Name: TBL
Project Code: TBL **Site ID:** B840 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: B. Slater	Locality:
Date Desc.: 19/02/87	Elevation: No Data
Map Ref.: Sheet No. : 8843 1:100000	Rainfall: 0
Northing/Long.: 149.983333333333	Runoff: Moderately rapid
Easting/Lat.: -29.15	Drainage: Moderately well drained

Geology

ExposureType: Auger boring	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: Qs	Substrate Material: No Data

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%	Pattern Type: Plain
Morph. Type: Mid-slope	Relief: No Data
Elem. Type: Plain	Slope Category: Very gently sloped
Slope: 0 %	Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Bleached-Vertic Calcic Grey Chromosol	Principal Profile Form: Dy2.33
ASC Confidence:	Great Soil Group: Solodic soil
All necessary analytical data are available.	

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Low Strata - , , . *Species includes - Chloris ventricosa
 Mid Strata - , , . *Species includes - Geijera parviflora, Eremophila mitchellii
 Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - Casuarina cristata, Eucalyptus populnea, Acacia

harpophylla

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.04 m	Very dark greyish brown (10YR3/2-Moist); Brown (7.5YR4/2-Dry); ; Clay loam; Weak grade of structure, 10-20 mm, Angular blocky; Massive grade of structure; Dry; Weak consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Substrate material, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 7.5 (pH meter); Clear change to -
A12	0.04 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Loam; Weak grade of structure, 10-20 mm, Angular blocky; Massive grade of structure; Dry; Firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Substrate material, coarse fragments; Common (10 - 20 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Clear change to -
A25B	0.1 - 0.15 m	Greyish brown (10YR5/2-Moist); White (10YR8/1-Dry); ; Clay loam; Weak grade of structure, 20-50 mm, Angular blocky; Weak grade of structure; Dry; Firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Substrate material, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Abrupt change to -
B21t	0.15 - 0.2 m	Greyish brown (10YR5/2-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Substrate material, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Gradual change to -
	0.2 - 0.3 m	Greyish brown (10YR5/2-Moist); ; Medium heavy clay; Moderate grade of structure, 50-100 mm, Subangular blocky; Smooth-ped fabric; Very strong consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Substrate material, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9 (pH meter); Gradual change to -
B22t	0.3 - 0.44 m	Brown (10YR5/3-Moist); ; Medium heavy clay; Moderate grade of structure, Lenticular; Smooth-ped fabric; Dry; Very strong consistence; 2-10%, medium gravelly, 6-20mm, subrounded, Substrate material, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Gradual change to -

Project Name: TBL
Project Code: TBL **Site ID:** B840 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

B23	0.44 - 0.6 m	Brown (10YR5/3-Moist); ; Medium heavy clay; Moderate grade of structure, Lenticular; Smooth-ped fabric; Dry; Very strong consistence; 2-10%, medium gravelly, 6-20mm, subrounded, Substrate material, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.9 (pH meter); Gradual change to -
B24	0.6 - 0.9 m	Yellowish brown (10YR5/4-Moist); ; Medium heavy clay; Moderate grade of structure, Lenticular; Smooth-ped fabric; Dry; Very strong consistence; 2-10%, medium gravelly, 6-20mm, subrounded, Substrate material, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.5 (pH meter); Gradual change to -
B25	0.9 - 1.2 m	Pale brown (10YR6/3-Moist); ; Medium heavy clay; Moderate grade of structure, Lenticular; Smooth-ped fabric; Dry; Very strong consistence; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.6 (pH meter); Gradual change to -
B26	1.2 - 1.5 m	Light brownish grey (10YR6/2-Moist); ; Medium clay; Moderate grade of structure, Lenticular; Smooth-ped fabric; Dry; Very strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.4 (pH meter); Gradual change to -
	1.5 - 1.72 m	Light brownish grey (10YR6/2-Moist); ; Medium clay; Moderate grade of structure, 50-100 mm, Lenticular; Smooth-ped fabric; Very strong consistence; Gradual change to -

Morphological Notes

Observation Notes

LAYERS RENUMBERED 12/10/92

Site Notes

TARA

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 - 0.04	8.2H	0.06B	20.4K	2.9	1.8	0.1	2.1D			
0.04 - 0.1	8.5H	0.04B	18.4K	2.5	0.9	<0.1	2.7D			
0.1 - 0.15	8.7H	0.06B	17.2K	5	0.7	0.2	4.1D			
0.15 - 0.2	8.8H	0.09B	16.9K	6.6	0.4	1.6	2.9D			
0.2 - 0.3	8.8H	0.17B								
0.44 - 0.6	8.8H	0.35B	10.7K	9.9	0.1	5	0.7D			
0.6 - 0.9	8.8H	0.37B	9.9K	10.4	0.2	5.6	<0.1D			
0.9 - 1.2	8.4H	0.37B	8.3K	10.9	0.3	6.6	1.5D			
1.5 - 1.72	4.8H	0.35B	6.8K	10	0.2	6.9	7D			

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	%	P	P	N	K	Density	GV	CS	FS	Silt	Clay
			mg/kg	%	%	%	Mg/m3			%		
0 - 0.04	1.63C	2.57A	105B	0.057F	0.272B	0.31B			24C	33	8	27
0.04 - 0.1	0.34C	1.37A	27B	0.036F	0.144B	0.24B			23C	35	8	31
0.1 - 0.15	0.36C	0.84A	11B	0.025F	0.104B	0.23B			22C	31	7	37
0.15 - 0.2	4.49C	0.67A	10B	0.023F	0.078B	0.21B			20C	27	8	39
0.2 - 0.3	8.82C	0.52A	6B	0.017F	0.062B	0.17B			20C	25	7	38
0.44 - 0.6	2.19C			0.01F	0.026B	0.15B			20C	28	10	40
0.6 - 0.9	1.71C			0.01F	0.029B	0.14B			21C	29	10	38
0.9 - 1.2	0.46C			0.008F	0.021B	0.13B			20C	27	10	43
1.5 - 1.72				0.008F	0.024B	0.13B			16C	25	13	48

[illegible]

Project Name: TBL
Project Code: TBL Site ID: B840 Observation ID: 1
Agency Name: CSIRO Division of Soils (QLD)

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
19B_NR	Calcium Carbonate (CaCO3) - 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
9A_NR	Total element - P(%) - Not recorded
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
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