TBL Project Name:

Project Code: TBL Site ID: B814 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: Date Desc.: Locality: B. Slater

Elevation: 19/02/87 No Data Map Ref.: Sheet No.: 8943 1:100000 Rainfall:

Northing/Long.: 150.466666666667 Runoff: Moderately rapid Moderately well drained Easting/Lat.: -27.38333333333333 Drainage:

Geology

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

Land Form

Rel/Slope Class: Level plain <9m <1% Pattern Type: Plain Morph. Type: Elem. Type: Flat Relief: No Data **Slope Category:** Plain Level 0 % No Data Slope: Aspect:

Surface Soil Condition (dry): Self-mulching, Cracking

Erosion:

Soil Classification

Australian Soil Classification: N/A **Mapping Unit:** Epicalcareous-Endohypersodic Self-Mulching Grey Vertosol **Principal Profile Form:** UG5.24

ASC Confidence: Great Soil Group: Grey clay

All necessary analytical data are available.

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Mid Strata - , , . *Species includes - None recorded

Nodules; Gradual change to -

Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - Casuarina cristata, Acacia harpophylla

Smooth-ped fabric; Dry; Very strong consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm),

Surface Coarse Fragments:

Profile	<u> Morphology</u>	
A11	0 - 0.04 m	Dark greyish brown (10YR4/2-Moist); Light grey (10YR7/1-Dry); ; Light clay; Strong grade of structure, 2-5 mm, Granular; Strong grade of structure, <2 mm, Granular; Smooth-ped fabric; Dry; Strong consistence; Field pH 7.3 (pH meter); Abrupt change to -
A12	0.04 - 0.1 m	Dark greyish brown (10YR4/2-Moist); , 7.5YR44, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Abrupt change to -
B21	0.1 - 0.2 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Angular blocky; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Clear change to -
B22k	0.2 - 0.3 m	Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Moderate grade of structure, Lenticular; Smooth-ped fabric; Dry; Very strong consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 8.8 (pH meter); Gradual change to -
B23k	0.3 - 0.38 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Smooth-ped fabric; Dry; Very strong consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; Gradual change to -
B24k	0.38 - 0.52 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Smooth-ped fabric; Dry; Very strong consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Gradual change to -
B25k	0.52 - 0.6 m	Light brownish grey (2.5Y6/2-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Smooth-ped fabric; Dry; Very strong consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 9 (pH meter); Gradual change to -
B26k	0.6 - 0.72 m	Light brownish grey (2.5Y6/2-Moist); ; Heavy clay; Moderate grade of structure, Lenticular;

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B27k	0.72 - 0.9 m	Light brownish grey (2.5Y6/2-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Smooth-ped fabric; Dry; Very strong consistence; Field pH 8 (pH meter); Gradual change to -
B28	0.9 - 1.2 m	Light brownish grey (2.5Y6/2-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Smooth-ped fabric; Dry; Very strong consistence; Field pH 6.5 (pH meter); Gradual change to -
B29	1.2 - 1.5 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Smooth-ped fabric; Dry; Very strong consistence; Field pH 6 (pH meter); Gradual change to -
	1.5 - 1.8 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Smooth-ped fabric; Very strong consistence; Gradual change to -

Morphological Notes

Observation Notes

FRAGILE CRUST. FINE SAND SEPARATION ON SURFACE; FINE SAND VISIBLE IN PROFILE. LAYERS RENUMBERED 8-10-92

Site Notes

TARA

Project Name: TBL
Project Code: TBL Site ID: B8'
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Laboratory Test Results:

Depth	рН	1:5 EC			changeable Cations			changeable CEC			ECEC	E	ESP
m		dS/m	Ca	Mg K		Na Acidity Cmol (+)/kg						•	%
0 - 0.04	6.8H	0.028B	17K	4.3	2.3	0.4		7.1D					
0.04 - 0.1	7.9H	0.018B	20.5K	4.6	1.7	0.6		4.4D					
0.1 - 0.2	8.4H	0.06B	16.9K	6.4	1.1	1		4.5D					
0.2 - 0.3	8.5H	0.098B	20.5K	9.2	0.6	1.9		<0.1D					
0.38 - 0.52	8.3H	0.29B	15.1K	12.5	0.4	4.4		<0.1D					
0.6 - 0.72	5.4H	0.48B	9.1K	11.2	0.4	5.2		4.5D					
0.72 - 0.9	4.8H	0.51B	6.6K	10.1	0.5	5.5		4.1D					
0.9 - 1.2	4.6H	0.51B	5.7K	9.5	0.5	5.4		4.8D					
1.5 - 1.8	4.3H	0.68B	5.1K	10	0.7	5.5		7.8D					
5	0.000	•		-	T	_		5.11	_		0.		
Depth	CaCO3	Organic C	Avail. P	Total P	Total N		otal K	Bulk Density	GV	article CS	Size FS	Analysis Silt	
m	%	%	mg/kg	%	%		%	Mg/m3	GV	03	%	Siit	Ciay
0 - 0.04		2.34A	40B	0.045F	0.26	9B ().45B			11C	30	14	42
0.04 - 0.1	0C	1.49A	13B	0.031F	0.17	-).38B			9C	28		46
0.1 - 0.2	0.040	-	6B	0.019F	0.11	-).34B			9C	26		48
0.2 - 0.3	0.140		4B	0.014F	0.09	-).32B			8C	25		51
0.38 - 0.52				0.008F	0.05	55B	0.3B			9C	29	12	48
0.6 - 0.72				0.01F	0.05	1B ().32B			9C	25	13	52
0.72 - 0.9				0.01F	0.04	12B ().29B			11C	26	12	52
0.9 - 1.2				0.009F	0.03	84B	0.9B			12C	28	9	52
1.5 - 1.8				0.009F	0.20	6B ().31B			8C	24	12	54
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					- m3/m3		'			mm/	h	mm/h	

0 - 0.04 0.04 - 0.1 0.1 - 0.2 0.2 - 0.3 0.38 - 0.52 0.6 - 0.72 0.72 - 0.9 0.9 - 1.2 1.5 - 1.8

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Laboratory Analyses Completed for this profile

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

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 Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded 15_NR_MG 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

Air-dry moisture content 2A1

3_NR Electrical conductivity or soluble salts - Not recorded

4_NR pH of soil - Not recorded

5_NR Water soluble Chloride - Cl(%) - Not recordede

Organic carbon - Walkley and Black 6A1 7_NR Total nitrogen (%) - Not recorded 9A_NR 9G_BSES

Total element - P(%) - Not recorded Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)

P10_NR_C Clay (%) - Not recorded

P10_NR_CS Coarse sand (%) - Not recorded Fine sand (%) - Not recorded P10_NR_FS Silt (%) - Not recorded P10_NR_Z