Project Name: Tambellup Borden land resources survey

Project Code: TBO Site ID: 0431 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Northing/Long.:

Desc. By: Rohan Marold Locality:
Date Desc.: 11/03/97 Elevation:

6224658 AMG zone: 50

610898 Datum: AGD84

Date Desc.: 11/03/97 Map Ref.:

Rainfall: No Data
Runoff: No Data
Drainage: Well drained

309 metres

Easting/Lat.: Geology

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data Geol. Ref.: No Data Substrate Material: No Data

Landform

Rel/Slope Class: Gently undulating rises 9-30m 1-3% Pattern Type: Rises

Morph. Type:Upper-slopeRelief:No DataElem. Type:DuneslopeSlope Category:No DataSlope:2 %Aspect:No Data

Surface Soil Condition Loose

Erosion (wind); (scald) (sheet) (rill) (mass) (qully)

(stbank) (tunnel)

Soil Classification

Australian Soil Classification:Mapping Unit:N/AMesotrophic Mottled-Subnatric Grey SodosolPrincipal Profile Form:Uc1.21ASC Confidence:Great Soil Group:N/A

No analytical data and little or no knowledge of this soil.

Site Disturbance Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation

Surface Coarse Fragments No surface coarse fragments

Profile Morphology

Ap 0 - 0.15 m Very dark greyish brown (2.5Y3/2-Moist); , 0-0%; Loamy sand; Single grain grade of

structure; Sandy

(grains prominent) fabric; Dry; Loose consistence; Water repellent; Field pH 6.2 (pH

meter); Clear change to -

A21ec 0.15 - 1.4 m

(grains

Light brownish grey (2.5Y6/2-Moist); , 0-0%; Sand; Single grain grade of structure; Sandy

prominent) fabric; Moderately moist; Loose consistence; Very few (0 - 2 %), Ferruginous,

Medium (2 -6

mm), Soft segregations; Water repellent; Field pH 6.4 (pH meter); Clear change to -

B21 1.4 - 1.7 m

grain grade of

Grey (2.5Y6/1-Moist); , 2.5Y68, 10-20% , 5-15mm, Prominent; Sandy clay loam; Single

structure; Sandy (grains prominent) fabric; Moist; Firm consistence; Field pH 7.4 (pH

meter);

Morphological Notes

Observation Notes

Site Notes

Large area of sand deposited at the top of the landscape. Pale deep sand--deep bleached sand/grey sandy clay--clay layer has greatly

impeded the downward flow of the previous rainfall

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Laboratory Test Results:

CEC **ECEC** ESP Depth 1:5 EC **Exchangeable Cations** Exchangeable Mg Ca Κ Na Acidity dS/m m Cmol (+)/ka %

0 - 0.15	5B 6H	2B	1.13H	0.15	0.03	0.06	0.04J	1.37D
0 - 0.15	5B 6H	2B	1.13H	0.15	0.03	0.06	0.04J	1.37D
0.15 - 0.45	4.8B 5.7H	1B	0.21H	0.05	0.02	0.03	0.05J	0.31D
0.15 - 0.45	4.8B 5.7H	1B	0.21H	0.05	0.02	0.03	0.05J	0.31D
0.45 - 0.75	5B 6H	1B	0.18H	0.07	0.03	0.04	0.03J	0.32D
0.45 - 0.75	5B 6H	1B	0.18H	0.07	0.03	0.04	0.03J	0.32D
0.75 - 1.05	5.2B 6.2H	1B	0.19H	0.03	0.02	0.03		0.27D
0.75 - 1.05	5.2B 6.2H	1B	0.19H	0.03	0.02	0.03		0.27D
1.05 - 1.4	6B 6.7H	1B	0.2A	0.04	0.02	0.03		0.29D
1.05 - 1.4	6B 6.7H	1B	0.2A	0.04	0.02	0.03		0.29D
1.4 - 1.8	6B 7.6H	5B	0.88A	3.82	80.0	1.38		6.16D
1.4 - 1.8	6B 7.6H	5B	0.88A	3.82	80.0	1.38		6.16D

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle CS	Size FS	Analysis Silt
		Clay	r	Г	IN	K	Delisity	GV	CO	13	Siit
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.15 1.6		0.27D		42B							1.5
0 - 0.15 1.6		0.27D		42B							1.5
0.15 - 0.45 1		0.07D		21B							8.0
0.15 - 0.45 1		0.07D		21B							0.8
0.45 - 0.75 0.9		0.04D		19B							0.9
0.45 - 0.75 0.9		0.04D		19B							0.9
0.75 - 1.05 0.8		0.04D		19B							0.9
0.75 - 1.05 0.8		0.04D		19B							0.9
1.05 - 1.4 0.9		0.04D		20B							0.9
1.05 - 1.4 0.9		0.04D		20B							0.9
1.4 - 1.8 28.4		0.09D		25B							2.3
1.4 - 1.8 28.4		0.09D		25B							2.3

Laboratory Analyses Completed for this profile

15_NR_AL	Aluminium Cation - meg per 100g of soil - Not recorded
15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1 CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts

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P10150_180

P10180_300

P10300_600

P106001000

15A1 K Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment 15A1_MG for soluble 15A1_NA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble 15E1_AL Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts 15E1_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 15E1_K 15E1_MG Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 15E1_MN Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts 15E1_NA Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 15J_BASES Sum of Bases Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using 15L1_a Sum of Cations and measured clay Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations 15N1_a 15N1_b 3_NR Electrical conductivity or soluble salts - Not recorded 4_NR pH of soil - Not recorded 4B_AL_NR Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded 4B1 pH of 1:5 soil/0.01M calcium chloride extract - direct 6A1_UC Organic carbon (%) - Uncorrected Walkley and Black method 9A3 Total Phosphorus (ppm) - semimicro kjeldahl, automated colour 9H1 Anion storage capacity P10_1m2m 1000 to 2000u particle size analysis, (method not recorded) P10_20_75 P10_75_106 20 to 75u particle size analysis, (method not recorded) 75 to 106u particle size analysis, (method not recorded) P10_gt2m > 2mm particle size analysis, (method not recorded) P10_NR_C Clay (%) - Not recorded P10_NR_Saa Sand (%) - Not recorded arithmetic difference, auto generated Silt (%) - Not recorded 106 to 150u particle size analysis, (method not recorded) P10_NR_Z P10106_150

150 to 180u particle size analysis, (method not recorded)

180 to 300u particle size analysis, (method not recorded)

300 to 600u particle size analysis, (method not recorded)

600 to 1000u particle size analysis, (method not recorded)