

Project Name: Tambellup Borden land resources survey
Project Code: TBO **Site ID:** 0336 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Rohan Marold	Locality:	
Date Desc.:	12/03/97	Elevation:	264 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6201598 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	623355 Datum: AGD84	Drainage:	Well drained

Geology

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

Landform

Rel/Slope Class:	Rolling rises 9-30m 10-32%	Pattern Type:	Low hills
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	12 %	Aspect:	No Data

Surface Soil Condition Soft

Erosion

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Mesotrophic Yellow Chromosol		Principal Profile Form:	Dy4.61
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

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

Vegetation

Surface Coarse Fragments 20-50%, medium gravelly, 6-20mm, subrounded, Ironstone; No surface coarse fragments

Profile Morphology

Ap	0 - 0.06 m	Very dark brown (10YR2/2-Moist); , 0-0% ; Fine sandy loam; Single grain grade of structure; Sandy
	60mm, subrounded,	(grains prominent) fabric; Dry; Very weak consistence; 10-20%, coarse gravelly, 20-
	Concretions; Water	Shells, coarse fragments; Common (10 - 20 %), Ferruginous, Medium (2 -6 mm), repellent; Field pH 6.3 (pH meter); Abrupt change to -
A21	0.06 - 0.4 m	Yellowish brown (10YR5/4-Moist); , 0-0% ; Fine sandy loam; Single grain grade of structure; Sandy
	60mm, subrounded,	(grains prominent) fabric; Dry; Very weak consistence; 10-20%, coarse gravelly, 20-
	Concretions; Field	Shells, coarse fragments; Very many (50 - 100 %), Ferruginous, Medium (2 -6 mm), pH 6.8 (pH meter); Clear change to -
B21	0.4 - 0.8 m	Brownish yellow (10YR6/8-Moist); , 0-0% ; Light clay; Single grain grade of structure;
	Sandy (grains	prominent) fabric; Dry; Firm consistence; 20-50%, coarse gravelly, 20-60mm,
	subrounded, Shells,	coarse fragments; Field pH 6 (pH meter); Gradual change to -
C	0.8 - 1.6 m	Brownish yellow (10YR6/8-Moist); , 10YR82, 10-20% , 5-15mm, Prominent; Light clay;
	Single grain	grade of structure; Sandy (grains prominent) fabric; Dry; Firm consistence; 50-90%,
	coarse gravelly, 20-	60mm, subrounded, Shells, coarse fragments; Field pH 6 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Loamy gravel--sandy gravel with sandstone

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.05	5.4B 6.2H	8B	15.29H	4.44	0.6	0.2	0.06J		20.53D	
0.05 - 0.3	5B 6.3H	3B	1.78H	0.69	0.2	0.09	0.09J		2.76D	
0.3 - 0.4	5.1B 6.3H	2B	1.16H	0.92	0.17	0.08	0.07J		2.33D	
0.4 - 0.7	4.9B 5.6H	4B	0.38H	3.47	0.07	0.26	0.17J		4.18D	
0.7 - 1	4.4B 5.3H	4B	0.15H	2.61	0.04	0.22	0.82J		3.02D	
1 - 1.6	4.3B 5.2H	4B	0.1H	2.07	0.04	0.16	1.32J		2.37D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt
0 - 0.05		8.81D		600B					3
1.5									
0.05 - 0.3		1.03D		63B					4.6
5									
0.3 - 0.4		0.61D		48B					4.4
8									
0.4 - 0.7		0.27D		34B					6.3
52.2									
0.7 - 1		0.13D		29B					7.3
47									
1 - 1.6		0.07D		25B					4
46									

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble salts
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
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
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
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	20 to 75u particle size analysis, (method not recorded)
P10_75_106	75 to 106u particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10106_150	106 to 150u particle size analysis, (method not recorded)
P10150_180	150 to 180u particle size analysis, (method not recorded)

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P10180_300 180 to 300u particle size analysis, (method not recorded)
P10300_600 300 to 600u particle size analysis, (method not recorded)
P106001000 600 to 1000u particle size analysis, (method not recorded)