

Project Name: Tambellup Borden land resources survey
Project Code: TBO **Site ID:** 1386 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Angela Stuart-Street	Locality:	
Date Desc.:	27/05/99	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6212853 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	549199 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: Gently undulating rises 9-30m 1-3% **Pattern Type:** Dunefield

Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Dune	Slope Category:	No Data
Slope:	1 %	Aspect:	0 degrees

Surface Soil Condition Soft

Erosion (wind); (scald) (sheet) (wave) (rill) (mass)
(gully) (stbank) (tunnel)

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Bleached-Mottled Natric Grey Kurosol	Principal Profile Form:	N/A
ASC Confidence:	Great Soil Group:	N/A
All necessary analytical data are available.		

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments No surface coarse fragments; No surface coarse fragments

Profile Morphology

A1p	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy
A21e	0.1 - 0.3 m	(grains prominent) fabric; Moist; Loose consistence; Abrupt, Smooth change to -
A22e	0.3 - 0.5 m	Pale brown (10YR6/3-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy
	(grains prominent)	fabric; Moist; Loose consistence; Gradual, Smooth change to -
	A22e	Very pale brown (10YR7/3-Moist); , 0-0% ; Coarse sand; Single grain grade of structure;
	Sandy (grains	prominent) fabric; Moist; Loose consistence; Common (10 - 20 %), Ferruginous, Coarse
	(6 - 20 mm),	Concretions; Clear, Wavy change to -
B21	0.5 - 0.7 m	Light brownish grey (2.5Y6/3-Moist); , 10YR68, 10-20% , 15-30mm, Faint; , 2.5YR36, 20-
	50% , 15-	30mm, Distinct; Sandy light clay; Weak grade of structure, 2-5 mm, Subangular blocky;
	Moist; Very weak	consistence; Gradual, Wavy change to -
B22	0.7 - 1.1 m	Light grey (2.5Y7/2-Moist); , 10YR68, 2-10% , 15-30mm, Faint; , 5YR58, 20-50% , 30-
	mm, Prominent;	Sandy medium clay; Massive grade of structure; Sandy (grains prominent) fabric; Moist;
	Weak	consistence; Gradual, Smooth change to -
B23	1.1 - 1.3 m	Light brownish grey (2.5Y6/3-Moist); , 10YR66, 2-10% , 15-30mm, Faint; , 5YR58, 10-
	20% , 15-30mm,	Distinct; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Moist; Very
	weak	consistence; Clear, Tongued change to -
B31	1.3 - 1.5 m	Light yellowish brown (2.5Y6/4-Moist); , 10YR66, 10-20% , 15-30mm, Faint; Coarse
	sandy light clay;	Massive grade of structure; Sandy (grains prominent) fabric; Moist; Very weak
	consistence; Clear,	Smooth change to -

B32 1.5 - 1.7 m Moderate grade Light brownish grey (2.5Y6/3-Moist); , 10YR58, 10-20% , 15-30mm, Faint; Medium clay; of structure, 2-5 mm, Subangular blocky; Moist; Weak consistence; Gradual, Smooth change to -

B33 1.7 - 1.9 m , 15-30mm, Light brownish grey (2.5Y6/3-Moist); , 10YR68, 2-10% , 15-30mm, Faint; , 5YR58, 2-10% Prominent; Light clay; Weak grade of structure, 2-5 mm, Subangular blocky; Moist; Weak consistence;

Morphological Notes

Observation Notes

Site Notes

Site on broad low rise - deep sand on dune crest, shallow duplex downslope. Heavy rain yesterday collected in pit at 190cm. Pit located where site TBO #0937 done.

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.1	4.1B 5.2A	5A	1.43H	0.17	0.03	0.07	0.21J		1.7D	
0.1 - 0.3	4.1B 4.7A	4A	0.13H	0.04	<0.02	0.04	0.16J		0.22D	
0.3 - 0.5	4.4B 5.4A	1A	0.12H	0.05	<0.02	0.02	0.09J		0.2D	
0.5 - 0.7	4.4B 5.8A	6A	0.72H	2.45	0.25	0.62	0.58J		4.04D	
0.7 - 1.1	4.2B 5.9A	6A	0.28H	2.52	0.34	0.82	0.87J		3.96D	
1.1 - 1.3	4B 5.8A	7A	0.11H	3.05	0.51	1.42	1.01J		5.09D	
1.3 - 1.5	4.1B 5.9A	6A	0.02H	2.37	0.45	1.77	0.3J		4.61D	
1.5 - 1.7	4.2B 5.7A	13A	0.04H	4.54	0.94	4.86	0.2J		10.38D	
1.7 - 1.9	4.3B 5.8A	14A	0.05H	4.76	1.03	5.64	0.2J		11.48D	

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV CS	Size FS	Analysis Silt
0 - 0.1 2.2		1.4A								2.9
0.1 - 0.3 1.6		0.13A								2.3
0.3 - 0.5 2.9		0.06A								2.1
0.5 - 0.7 38.6		0.19A								3.6
0.7 - 1.1 36.8		0.13A								1.5
1.1 - 1.3 44.6		0.13A								1.9
1.3 - 1.5 28.5		0.1A								2
1.5 - 1.7 62.4		0.15A								3.9

1.7 - 1.9
70.4

0.12A

4.5

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	Exchangeable bases (Ca/Mg ratio) - 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
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
4B_AL	Aluminium in 1:5 soil/0.01M calcium chloride extract - following Method 4A1
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1	Organic carbon - Walkley and Black
9A_S14	Total element - P(%) method S14 CCWA

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9I1	Phosphate sorption index
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_20_75a	20 to 75u particle size analysis, (arithmetic difference)
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)
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)