

Project Name: Tambellup Borden land resources survey
Project Code: TBO **Site ID:** 0233 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Rohan Marold	Locality:	
Date Desc.:	12/03/97	Elevation:	140 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6187440 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	635435 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:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition Loose

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

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Basic Regolithic Bleached-Orthic Tenosol	Principal Profile Form:	Uc2.21
ASC Confidence:	Great Soil Group:	N/A
All necessary analytical data are available.		

Site Disturbance Highly disturbed, for example, quarrying, roadworks, mining, landfill, urban

Vegetation

Surface Coarse Fragments No surface coarse fragments

Profile Morphology

A1	0 - 0.11 m	Dark grey (10YR4/1-Moist); , 0-0% ; Loamy fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Water repellent; Field pH 6.2 (pH meter); Clear change to -
A12	0.11 - 0.3 m	Dark grey (10YR4/1-Moist); , 0-0% ; Loamy fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Water repellent; Field pH 6.5 (pH meter); Clear change to -
A21e	0.3 - 0.6 m	Light brownish grey (10YR6/2-Moist); , 0-0% ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Water repellent; Field pH 6.5 (pH meter); Clear change to -
A22e	0.6 - 0.9 m	Light brownish grey (10YR6/2-Moist); , 0-0% ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Water repellent; Field pH 6 (pH meter); Clear change to -
A23e	0.9 - 1.2 m	Light grey (10YR7/2-Moist); , 0-0% ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Water repellent; Field pH 6 (pH meter); Clear change to -
A24e	1.2 - 1.7 m	Light brownish grey (10YR6/2-Moist); , 0-0% ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Water repellent; Field pH 5.8 (pH meter); Clear change to -
B21c	1.7 - 2 m	Light yellowish brown (2.5Y6/4-Moist); , 0-0% ; Clayey fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; Common (10 - 20

%), Ferruginous,

change to -

Coarse (6 - 20 mm), Soft segregations; Water repellent; Field pH 6.2 (pH meter); Clear

B22c 2 - 2.3 m
structure; Sandy

Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Clayey fine sand; Single grain grade of
(grains prominent) fabric; Moderately moist; Very weak consistence; Very few (0 - 2 %),

Ferruginous,

Coarse (6 - 20 mm), Soft segregations; Water repellent; Field pH 6.9 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Pale deep sand--deep fine sand/brown sand with nodules

Project Name: Tambellup Borden land resources survey

Project Code: TBO

Site ID: 0233

Observation 1

Agency Name: Agriculture Western Australia

Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable	Cations	Na	Exchangeable	CEC	ECEC	ESP
m		dS/m		Mg	K	Cmol (+)/kg	Acidity			%
0 - 0.11	4.3B 6H	2B	1.09H	0.3	0.06	0.12	0.1J		1.57D	
0 - 0.11	4.3B 6H	2B	1.09H	0.3	0.06	0.12	0.1J		1.57D	
0.11 - 0.3	5B 6.5H	4B	1.58A	0.31	0.07	0.2			2.16D	
0.11 - 0.3	5B 6.5H	4B	1.58A	0.31	0.07	0.2			2.16D	
0.3 - 0.6	5.4B 6.7H	4B	0.78A	0.24	0.03	0.18			1.23D	
0.3 - 0.6	5.4B 6.7H	4B	0.78A	0.24	0.03	0.18			1.23D	
0.6 - 0.9	4.5B 5.6H	4B	0.44H	0.15	0.03	0.15	0.12J		0.77D	
0.6 - 0.9	4.5B 5.6H	4B	0.44H	0.15	0.03	0.15	0.12J		0.77D	
0.9 - 1.2	4.9B 6H	3B	0.27H	0.1	0.02	0.11	0.07J		0.5D	
0.9 - 1.2	4.9B 6H	3B	0.27H	0.1	0.02	0.11	0.07J		0.5D	
1.2 - 1.7	5.3B 6.2H	2B	0.21H	0.08	0.02	0.09	0.09J		0.4D	
1.2 - 1.7	5.3B 6.2H	2B	0.21H	0.08	0.02	0.09	0.09J		0.4D	
1.7 - 2	6.4B 7.4H	5B	0.56A	0.25	0.06	0.2			1.07D	
1.7 - 2	6.4B 7.4H	5B	0.56A	0.25	0.06	0.2			1.07D	
2 - 2.3	6.3B 7.5H	2B	0.31A	0.15	0.05	0.09			0.6D	
2 - 2.3	6.3B 7.5H	2B	0.31A	0.15	0.05	0.09			0.6D	

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 - 0.11		0.98D		20B				0.3
0 - 0.11		0.98D		20B				0.3
0.11 - 0.3		0.84D		16B				0.4

1.1			
0.11 - 0.3	0.84D	16B	0.4
1.1			
0.3 - 0.6	0.38D	13B	0.2
0.8			
0.3 - 0.6	0.38D	13B	0.2
0.8			
0.6 - 0.9	0.37D	13B	0.1
0.8			
0.6 - 0.9	0.37D	13B	0.1
0.8			
0.9 - 1.2	0.15D	9B	0.1
0.7			
0.9 - 1.2	0.15D	9B	0.1
0.7			
1.2 - 1.7	0.13D	12B	0.1
0.5			
1.2 - 1.7	0.13D	12B	0.1
0.5			
1.7 - 2	0.17D	13B	0.1
1.4			
1.7 - 2	0.17D	13B	0.1
1.4			

Project Name: Tambellup Borden land resources survey
Project Code: TBO **Site ID:** 0233 **Observation** 1
Agency Name: Agriculture Western Australia

2 - 2.3	0.12D	12B	0
1.1			
2 - 2.3	0.12D	12B	0
1.1			

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
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
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
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
15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	
	and measured clay
15N1_a	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
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_gt2m	> 2mm 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)