

Project Name: Tambellup Borden land resources survey
Project Code: TBO **Site ID:** 1347 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Melanie Roberts	Locality:	
Date Desc.:	26/11/98	Elevation:	280 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6194630 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	591100 Datum: AGD84	Drainage:	Moderately well drained

Geology

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

Landform

Rel/Slope Class: Undulating low hills 30-90m 3-10% **Pattern Type:** Low hills

Morph. Type:	Mid-slope	Relief:	40 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	3 %	Aspect:	No Data

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Ferric Mottled-Hypernatric Grey Sodosol	Principal Profile Form:	N/A
ASC Confidence:	Great Soil Group:	N/A
No analytical data are available but confidence is fair.		

Site Disturbance No effective disturbance. Natural

Vegetation

Surface Coarse Fragments 20-50%, medium gravelly, 6-20mm, subangular, Sandstone; 20-50%, cobbly, 60-200mm, subangular, Sandstone

Profile Morphology

A1	0 - 0.05 m	Dark greyish brown (10YR4/2-Moist); ; Clayey fine sand; Single grain grade of structure; 2-10%, cobbly, subangular, 60-200mm, subangular, Sandstone, coarse fragments; 2-10%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 6.5 (Raupach);
A21e	0.05 - 0.18 m	Light brownish grey (10YR6/2-Moist); ; Clayey fine sand; Single grain grade of structure; 50-90%, cobbly, 60-200mm, subangular, Sandstone, coarse fragments; Field pH 6 (Raupach);
A22ec	0.18 - 0.28 m	Light brownish grey (10YR6/2-Moist); ; Clayey fine sand; Single grain grade of structure; 50-90%, coarse gravelly, 20-60mm, subrounded, Ironstone, coarse fragments; 2-10%, medium subangular, Sandstone, coarse fragments; 2-10%, medium gravelly, 6-20mm, coarse fragments; Field pH 6 (Raupach);
B2t	0.28 - 0.5 m	Light grey (10YR7/1-Moist); Mottles, 10YR66, 20-50% , 15-30mm, Distinct; Mottles, 5YR58, 2-10% , 5-15mm, Distinct; Light medium clay; Moderate grade of structure, 20-50 mm, Prismatic; Field pH 6 (Raupach);

Morphological Notes

Observation Notes

Site Notes

Soil samples taken for chemical analysis.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.05	4.9B 6A	5A	3.49H	1.16	0.16	0.24	0.21J	5.05D	
0.05 - 0.18	4.6B 5.9A	4A	0.73H	0.54	0.07	0.14	0.15J	1.48D	
0.18 - 0.28	4.8B 6.2A	2A	0.29H	0.46	0.06	0.15	0.15J	0.96D	
0.28 - 0.5	5B 6.4A	5A	0.33H	2.25	0.11	0.58	0.16J	3.27D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.05 3.7		2.36A									5.9
0.05 - 0.18 3.8		0.97A									6.6
0.18 - 0.28 6.9		0.72A									7.4
0.28 - 0.5 43.1		0.6A									11.8

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
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)