

**Project Name:** Tambellup Borden land resources survey  
**Project Code:** TBO **Site ID:** 0083 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Rohan Marold  
**Date Desc.:** 21/09/95  
**Map Ref.:**  
**Northing/Long.:** 6235096 AMG zone: 50  
**Easting/Lat.:** 621126 Datum: AGD84  
**Locality:**  
**Elevation:** 280 metres  
**Rainfall:** No Data  
**Runoff:** No Data  
**Drainage:** Moderately well drained

#### Geology

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

#### Landform

**Rel/Slope Class:** Gently undulating plains <9m 1-3% **Pattern Type:** Plain

**Morph. Type:** Simple-slope  
**Elem. Type:** Plain  
**Slope:** %  
**Relief:** No Data  
**Slope Category:** No Data  
**Aspect:** No Data

**Surface Soil Condition** Hardsetting, Hardsetting

#### Erosion

#### Soil Classification

**Australian Soil Classification:** Mesotrophic Mesonatric Red Sodosol  
**Mapping Unit:** N/A  
**Principal Profile Form:** Dy2.12  
**ASC Confidence:** No analytical data and little or no knowledge of this soil.  
**Great Soil Group:** N/A

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

#### Vegetation

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

#### Profile Morphology

Ap 0 - 0.11 m Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sandy clay loam; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; Field pH 7 (Raupach); Abrupt change to -  
 B21 0.11 - 0.4 m Reddish yellow (5YR6/8-Moist); , 0-0% ; Light medium clay; Moderate grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Dry; Very firm consistence; Field pH 7.5 (Raupach);

#### Morphological Notes

Ap  
B21

#### Observation Notes

#### Site Notes

Hardsetting, shallow sandy loam/red clay. similar colour clay to #81,82. Gently undulating plain area high in the landscape.

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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				Na Cmol (+)/kg				%
0 - 0.11	5B 5.9H	10B	4.3H	1.4	0.12	0.41	0.14J		6.23D	
0 - 0.11	5B 5.9H	10B	4.3H	1.4	0.12	0.41	0.14J		6.23D	
0.11 - 0.4	5.7B 6.9H	14B	2.34A	4.28	0.1	1.43			8.15D	
0.11 - 0.4	5.7B 6.9H	14B	2.34A	4.28	0.1	1.43			8.15D	

Depth	CaCO <sub>3</sub>	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m <sup>3</sup>			%	
0 - 0.11 12		2.53D							83I		5
0 - 0.11 12		2.53D							83I		5
0.11 - 0.4 63		0.73D							34I		3
0.11 - 0.4 63		0.73D							34I		3

#### **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
15A1_CA for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_CEC	salts
15A1_K for soluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts
15E1_AL	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
15E1_CA salts	salts
15E1_K	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) by compulsive exchange, no pretreatment for soluble
15E1_MN	salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15L1_a	Sum of Bases
Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
15N1_a	and measured clay
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
3_NR	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
4_NR	Electrical conductivity or soluble salts - Not recorded
4B1	pH of soil - Not recorded
6A1_UC	pH of 1:5 soil/0.01M calcium chloride extract - direct
P10_gt2m	Organic carbon (%) - Uncorrected Walkley and Black method
P10_NR_C	> 2mm particle size analysis, (method not recorded)
P10_NR_S	Clay (%) - Not recorded
P10_NR_Z	Sand (%) - Not recorded
	Silt (%) - Not recorded