

Project Name: Tambellup Borden land resources survey
Project Code: TBO **Site ID:** 0283 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Rohan Marold	Locality:	
Date Desc.:	12/03/97	Elevation:	135 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6208488 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	622105 Datum: AGD84	Drainage:	Moderately 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:	No Data	Pattern Type:	No Data
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	%	Aspect:	No Data

Surface Soil Condition Firm

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

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Mesotrophic Sodosolic Salic Hydrosol	Principal Profile Form:	Dr4.23
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

Profile Morphology

Ap	0 - 0.11 m	Dark brown (7.5YR3/3-Moist); , 0-0% ; Clay loam, sandy; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Firm consistence; Field pH 7.8 (pH meter); Abrupt change to -
A3	0.11 - 0.35 m	Strong brown (7.5YR4/6-Moist); , 0-0% ; Clay loam, sandy; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Firm consistence; Field pH 8.9 (pH meter); Clear change to -
B2	0.35 - 0.85 m	Yellowish red (5YR4/6-Moist); , 0-0% ; Medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Moderately moist; Strong consistence; Field pH 9.5 (pH meter); Gradual change to -
C1	0.85 - 1.1 m	Yellowish red (5YR5/8-Moist); , 0-0% ; Light clay; Weak grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Moderately moist; Very firm consistence; Field pH 9.1 (pH meter); Gradual change to -
C2	1.1 - 1.8 m	Yellowish brown (10YR5/8-Moist); , 0-0% ; Clay loam; Moderately moist; Firm consistence; Field pH 6.8 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Alkaline red deep loamy duplex--red structured clay loam

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations	Exchangeable	CEC	ECEC	ESP
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m	dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity				%
0 - 0.1	5.9B 7H	17B	7.91A	7.28	0.95	1.89			18.03D	
0 - 0.1	5.9B 7H	17B	7.91A	7.28	0.95	1.89			18.03D	
0.1 - 0.35	8.8B 9.4H	160B	5.66E	14.55	1.1	12.53		31B	33.84D	40.42
0.1 - 0.35	8.8B 9.4H	160B	5.66E	14.55	1.1	12.53		31B	33.84D	40.42
0.35 - 0.65	8.8B 9.3H	220B	5.38E	15.14	1.14	16.12		35B	37.78D	46.06
0.35 - 0.65	8.8B 9.3H	220B	5.38E	15.14	1.14	16.12		35B	37.78D	46.06
0.65 - 0.95	8.3B 8.8H	190B	3.27E	10.76	0.47	16.45		26B	30.95D	63.27
0.65 - 0.95	8.3B 8.8H	190B	3.27E	10.76	0.47	16.45		26B	30.95D	63.27
0.95 - 1.15	7.7B 8.3H	180B	2.7E	9.93	0.43	17.2		27B	30.26D	63.70
0.95 - 1.15	7.7B 8.3H	180B	2.7E	9.93	0.43	17.2		27B	30.26D	63.70
1.15 - 1.7	4.5B 5H	190B	1.91H	9.22	0.67	14.02	0.23J		25.82D	
1.15 - 1.7	4.5B 5H	190B	1.91H	9.22	0.67	14.02	0.23J		25.82D	

Depth	CaCO ₃	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 ³			%	
0 - 0.1		1.69D		230B							12.5
25.4											
0 - 0.1		1.69D		230B							12.5
25.4											
0.1 - 0.35	4C	0.42D		130B							3.4
62.8											
0.1 - 0.35	4C	0.42D		130B							3.4
62.8											
0.35 - 0.65	9C	0.28D		120B							4.3
73.1											
0.35 - 0.65	9C	0.28D		120B							4.3
73.1											
0.65 - 0.95	<2C	0.16D		140B							21.1
36.8											
0.65 - 0.95	<2C	0.16D		140B							21.1
36.8											
0.95 - 1.15	<2C	0.13D		170B							19.7
25											
0.95 - 1.15	<2C	0.13D		170B							19.7
25											
1.15 - 1.7		0.22D		200B							18.6
21.6											
1.15 - 1.7		0.22D		200B							18.6
21.6											

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
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded
15A1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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

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15A1_K for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15C1_CA pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA salts	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
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_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Sum of Bases
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using 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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
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)