

Project Name: Tambellup Borden land resources survey
Project Code: TBO **Site ID:** 1306 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Melanie Roberts
Date Desc.: 20/11/98
Map Ref.:
Northing/Long.: 6201660 AMG zone: 50
Easting/Lat.: 572800 Datum: AGD84
Locality:
Elevation: 275 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: Undulating low hills 30-90m 3-10% **Pattern Type:** Low hills

Morph. Type: Lower-slope
Elem. Type: Hillslope
Slope: 1 %
Relief: 35 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition Soft

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

Soil Classification

Australian Soil Classification:
 Basic Petroferric Sequi-Nodular Tenosol
ASC Confidence:
 All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site Disturbance No effective disturbance other than grazing by hoofed animals

Vegetation

Surface Coarse Fragments 20-50%, medium gravelly, 6-20mm, subrounded, Ironstone; No surface coarse fragments

Profile Morphology

A1c 0 - 0.07 m Light brown (7.5YR6/4-Moist); ; Clayey fine sand; Single grain grade of structure; 50-90%,
 medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; Water repellent; Field pH
 5.6 (pH meter);

A2ce 0.07 - 0.4 m Pinkish grey (7.5YR6/3-Moist); ; Single grain grade of structure; 50-90%, cobbly, 60-
 200mm, subrounded, Ironstone, coarse fragments; Water repellent; Field pH 5.6 (pH meter);

Cm 0.4 - m ;

Morphological Notes

Observation Notes

Site Notes

Loosely cemented ironstone at 40 cm depth. Samples taken for analysis.

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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 - 0.07	4.4B 5.4A	5A	2.54H	1.08	0.1	0.14	0.28J		3.86D	
0.07 - 0.4	4.5B 5.7A	3A	0.74H	0.47	0.06	0.13	0.24J		1.4D	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle Size Analysis
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		C Clay	P	P	N	K	Density	GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.07		2.69A									4.2
2.6											
0.07 - 0.4		0.84A									6.7
3.6											

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
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)