

Project Name: Tambellup Borden land resources survey
Project Code: TBO **Site ID:** 1385 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Angela Stuart-Street
Date Desc.: 31/05/99
Map Ref.:
Northing/Long.: 6195418 AMG zone: 50
Easting/Lat.: 548265 Datum: AGD84
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Landform

Rel/Slope Class: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 2 %
Relief: No Data
Slope Category: No Data
Aspect: 270 degrees

Surface Soil Condition Firm

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

Soil Classification

Australian Soil Classification:
 Ferric Mottled-Subnatric Grey Sodosol
ASC Confidence:
 Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments 10-20%, medium gravelly, 6-20mm, subrounded, Ironstone; 2-10%, cobbly, 60-200mm, subrounded, Ironstone

Profile Morphology

A1p 0 - 0.1 m Very dark greyish brown (10YR3/2-Moist); ; Loamy fine sand; Moist; Loose consistence;
 20-50%, fine
 gravelly, 2-6mm, subrounded, Ironstone, coarse fragments; Abrupt, Smooth change to -
 A21c 0.1 - 0.4 m Yellowish brown (10YR5/4-Moist); ; Loamy fine sand; Moist; Loose consistence; 50-90%,
 medium
 gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; Abrupt, Smooth change to -
 B21t 0.4 - 0.8 m Greyish brown (2.5Y5/3-Moist); , 7.5YR58, 20-50% , 5-15mm, Distinct; Medium clay;
 Weak grade of
 structure, <2 mm, Subangular blocky; Wet; Very weak consistence; Clear, Smooth
 change to -
 B22 0.8 - 1 m Light brownish grey (2.5Y6/3-Moist); , 2.5YR36, 10-20% , 15-30mm, Prominent; Medium
 clay; Weak
 grade of structure, 2-5 mm, Subangular blocky; Wet; Very weak consistence;

Morphological Notes

Observation Notes

Site Notes

Soil pit began getting water seeping into it shortly after being excavated - water standing at 80cm - pit originally approx. 160 - 180cm deep.
 Samples taken from upper surfaces & auger hole adjacent to pit. Pit dug where site TBO #1080 done

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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				Cmol (+)/kg				%
0 - 0.1	5.1B	29A	13.49H	2.68	0.47	0.3	0.1J		16.94D	

0.1 - 0.4	5.7A 4.9B 5.9A	3A	1.58H	0.44	0.03	0.04	0.1J	2.09D
0.4 - 0.8	4.9B 5.7A	10A	2.75H	5.1	0.1	0.54	0.09J	8.49D
0.8 - 0.9	4.2B 4.9A	15A	1.1H	5.13	0.04	0.87	0.46J	7.14D

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.1		5.84A						4.9
3								
0.1 - 0.4		0.58A						5.3
5.5								
0.4 - 0.8		0.43A						3.4
66.7								
0.8 - 0.9		0.19A						3.1
65.9								

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
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)