

Project Name: Tonebridge land resources survey
Project Code: TON **Site ID:** 0795 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Angela Stuart-Street	Locality:
Date Desc.: 08/12/98	Elevation: No Data
Map Ref.:	Rainfall: No Data
Northing/Long.: 6209461 AMG zone: 50	Runoff: No Data
Easting/Lat.: 475990 Datum: AGD84	Drainage: 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: Level plain <9m <1%	Pattern Type: Plain
Morph. Type: Flat	Relief: No Data
Elem. Type: Plain	Slope Category: No Data
Slope: 0 %	Aspect: No Data

Surface Soil Condition Loose

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

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Hypocalcic Mottled-Hypernatric Brown Sodosol	Principal Profile Form: N/A
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 No surface coarse fragments; No surface coarse fragments

Profile Morphology

A1p	0 - 0.04 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Strongly water repellent, "Abrupt, Smooth change to -
A21e	0.04 - 0.1 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Water repellent; Abrupt, Wavy change to -
A22e	0.1 - 0.3 m	Light brownish grey (10YR6/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moist; Loose consistence; Gradual change to -
B21t	0.3 - 0.4 m	Greyish brown (2.5Y5/3-Moist); Mottles, 10YR58, 20-50% , 0-5mm, Distinct; Light clay; Moderate grade of structure, 100-200 mm, Columnar; Smooth-ped fabric; Moist; Weak consistence; Field pH 8 (pH meter); Gradual change to -
B22t	0.4 - 0.65 m	Light brownish grey (2.5Y6/3-Moist); Mottles, 10YR68, 10-20% , 0-5mm, Faint; Light medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Weak consistence; Gradual change to -
B23t	0.65 - 0.95 m	Pale yellow (2.5Y7/3-Moist); Mottles, 10YR68, 10-20% , 0-5mm, Prominent; Medium clay; Massive grade of structure; Sandy (grains prominent) fabric; Loose consistence; Gradual change to -
B24g	0.95 - 1.3 m	Light grey (5Y7/2-Moist); Mottles, 10YR68, 2-10% , 0-5mm, Prominent; Medium clay; Massive grade of structure; Sandy (grains prominent) fabric; Firm consistence; Gradual change to -

Morphological Notes

Observation Notes

Site Notes

Surface of clay incipiently domed & organically stained - (Perched water in winter) ?

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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 - 0.04	4.4B 5.1H	43B	2.88H	2.34	0.12	1.17	0.14J		6.51D	
0.04 - 0.1	4B 5H	4B	0.14H	0.12	<0.02	0.11	0.18J		0.38D	
0.1 - 0.3	4.2B 5.4H	1B	0.08H	0.03	<0.02	0.04	0.08J		0.16D	
0.3 - 0.4	6B 7.7H	8B	1.35A	6.28	0.05	1.85			9.53D	
0.4 - 0.65	7.2B 9H	10B	1.34E	6.32	0.05	2.29		12B	10D	19.08
0.65 - 0.95	7.9B 9.4H	19B	0.95E	6.54	0.08	3.94		12B	11.51D	32.83
0.95 - 1.3	8B 9.2H	39B	1.12E	9.01	0.14	6.6		18B	16.87D	36.67

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0 - 0.04		5.15D		190B							2.4
1.3											
0.04 - 0.1		0.32D		35B							2.8
1.7											
0.1 - 0.3		0.12D		27B							1.9
1.1											
0.3 - 0.4		0.19D		28B							5
20.2											
0.4 - 0.65	<2C	0.08D		21B							4.2
20.3											
0.65 - 0.95	<2C	0.04D		20B							2.2
26.5											
0.95 - 1.3	<2C	0.03D		18B							2.3
36.1											

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
15A1_CEC	salts
15A1_K	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_MG	salts
for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA	salts
for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15C1_CA	salts
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	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble
salts	

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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	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	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_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)