

Project Name: Tonebridge land resources survey
Project Code: TON **Site ID:** 0798 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Angela Stuart-Street	Locality:	
Date Desc.:	09/12/98	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6218048 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	474811 Datum: AGD84	Drainage:	Imperfectly drained

Geology

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

Landform

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	3 %	Aspect:	180 degrees

Surface Soil Condition Firm

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Ferric Mesotrophic Grey Chromosol		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 - 0.15 m	Dark grey (10YR4/1-Moist); ; Loamy sand; Single grain grade of structure; Sandy (grains prominent)
Ironstone, coarse		fabric; Moderately moist; Loose consistence; 2-10%, fine gravelly, 2-6mm, subrounded, fragments; Water repellent; Clear, Broken change to -
A21ec	0.15 - 0.25 m	Light yellowish brown (10YR6/4-Moist); ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; 20-50%, medium gravelly, 6-20mm, subrounded,
		Ironstone, coarse fragments; Clear, Wavy change to -
A22ec	0.25 - 0.4 m	Very pale brown (10YR7/4-Moist); ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moist; Loose consistence; 50-90%, medium gravelly, 6-20mm, subrounded, Ironstone,
		coarse fragments; Clear, Smooth change to -
A3ec	0.4 - 0.6 m	Yellow (10YR7/6-Moist); ; Clayey sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moist; Loose consistence; 50-90%, fine gravelly, 2-6mm, subrounded, Ironstone, coarse fragments; 10-20%, coarse gravelly, 20-60mm, subrounded, Ironstone, coarse fragments; Clear, Wavy change to -
B21tc	0.6 - 1 m	Light yellowish brown (10YR6/4-Moist); ; Sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Wet; Loose consistence; 50-90%, medium gravelly, 6-20mm, subrounded, Ironstone,
		coarse fragments; Sharp, Smooth change to -
B22	1 - 1.15 m	Yellow (10YR7/6-Moist); Mottles, 10YR68, 2-10% , 0-5mm, Distinct; Coarse sandy clay loam; Massive grade of structure; Wet; Loose consistence; 2-10%, medium gravelly, 6-20mm, subrounded, Ironstone,
		coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Soft segregations;

Morphological Notes

Observation Notes

Site Notes

Site on slope towards lower part of rise. Soil pit close to corner of paddock. Water in pit at 115 cm.

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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 - 0.15	4.2B 5.2H	2B	1.9H	0.27	<0.02	0.03	0.58J		2.21D	
0.15 - 0.25	4.6B 5.7H	1B	0.39H	0.13	0.02	0.03	0.18J		0.57D	
0.25 - 0.4	4.9B 6H	1B	0.5H	0.11	<0.02	0.04	0.07J		0.66D	
0.4 - 0.6	5B 6.1H	1B	0.53H	0.26	<0.02	0.02	0.06J		0.82D	
0.6 - 1	5.3B 6.4H	1B	0.58H	0.71	<0.02	0.03			1.33D	
1 - 1.15	5.4B 6.4H	1B	0.31H	0.52	<0.02	0.03			0.87D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.15		1.26D		43B							1.7
1.6											
0.15 - 0.25		0.29D		21B							1.5
2.9											
0.25 - 0.4		0.21D		20B							1.4
4.8											
0.4 - 0.6		0.2D		18B							1.3
8.9											
0.6 - 1		0.22D		22B							1.4
18.2											
1 - 1.15		0.14D		18B							1
17.1											

Laboratory Analyses Completed for this profile

15_NR_AL	Aluminium Cation - meq per 100g of soil - Not recorded
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_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
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
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

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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)