

**Project Name:** Tonebridge land resources survey  
**Project Code:** TON **Site ID:** 0797 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

<b>Desc. By:</b>	Angela Stuart-Street	<b>Locality:</b>	
<b>Date Desc.:</b>	10/12/98	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6212658 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	493073 Datum: AGD84	<b>Drainage:</b>	Imperfectly drained

**Geology**

<b>ExposureType:</b>	Auger boring	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	No Data

**Landform**

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

<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	2 %	<b>Aspect:</b>	45 degrees

**Surface Soil Condition** Firm

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

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Bleached Petroferric Sequi-Nodular Tenosol	<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	N/A
Confidence level not specified		

**Site Disturbance** Cultivation. Rainfed

**Vegetation**

**Surface Coarse Fragments** 50-90%, medium gravelly, 6-20mm, subrounded, Ironstone; 10-20%, cobbly, 60-200mm, subrounded, Ironstone

**Profile Morphology**

A1pc 0 - 0.07 m	Black (10YR2/1-Moist); , 0-0% ; Loamy sand; Dry; Loose consistence; 20-50%, fine gravelly, 2-6mm,
	subrounded, Ironstone, coarse fragments; 20-50%, medium gravelly, 6-20mm,
	coarse fragments; Strongly water repellent, "Abrupt, Smooth change to -
A21c 0.07 - 0.15 m	Yellowish brown (10YR5/6-Moist); , 0-0% ; Loamy coarse sand; Moderately moist; Loose consistence;
	20-50%, fine gravelly, 2-6mm, subrounded, Ironstone, coarse fragments; 20-50%,
	20mm, subrounded, Ironstone, coarse fragments; Clear, Smooth change to -
A22ec 0.15 - 0.3 m	Very pale brown (10YR7/4-Moist); , 0-0% ; Loamy coarse sand; Moderately moist; Loose consistence;
	20-50%, fine gravelly, 2-6mm, subrounded, Ironstone, coarse fragments; 20-50%,
	20mm, subrounded, Ironstone, coarse fragments; Clear, Smooth change to -
B2c 0.3 - 0.45 m	Brownish yellow (10YR6/6-Moist); ; Loamy coarse sand; Moderately moist; Loose consistence; 20-50%,
	fine gravelly, 2-6mm, subrounded, Ironstone, coarse fragments; 20-50%, medium
	subrounded, Ironstone, coarse fragments;
Cm 0.45 - m	; Ferricrete, Strongly cemented, Massive;

**Morphological Notes**

**Observation Notes**

**Site Notes**

Site in bluegum plantation. Ferricrete at 45 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				Cmol (+)/kg				%
0 - 0.07	4.4B 5.1H	8B	6.95H	0.56	0.18	0.07	1.44J		7.76D	
0.07 - 0.15	4.7B 5.8H	1B	1.72H	0.19	0.03	0.04	0.24J		1.98D	
0.15 - 0.3	5.1B 6.2H	1B	0.95H	0.12	<0.02	0.02			1.1D	
0.3 - 0.45	5.4B 6.4H	1B	1.69H	0.36	0.03	0.02			2.1D	

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 - 0.07 2.4		4.4D		270B				5.7
0.07 - 0.15 3.5		0.7D		48B				3.6
0.15 - 0.3 2.9		0.26D		30B				2.8
0.3 - 0.45 7.1		0.27D		31B				3.5

### 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_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
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
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)