

**Project Name:** Tonebridge land resources survey  
**Project Code:** TON **Site ID:** 0733 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

<b>Desc. By:</b> Angela Stuart-Street	<b>Locality:</b>
<b>Date Desc.:</b> 17/11/98	<b>Elevation:</b> No Data
<b>Map Ref.:</b>	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6188414 AMG zone: 50	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 490004 Datum: AGD84	<b>Drainage:</b> Well 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**

<b>Rel/Slope Class:</b> Undulating rises 9-30m 3-10%	<b>Pattern Type:</b> Rises
<b>Morph. Type:</b> Lower-slope	<b>Relief:</b> No Data
<b>Elem. Type:</b> Hillslope	<b>Slope Category:</b> No Data
<b>Slope:</b> 4 %	<b>Aspect:</b> 180 degrees

**Surface Soil Condition** Soft

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

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Ferric Mesotrophic Yellow Chromosol	<b>Principal Profile Form:</b> N/A
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> N/A
Confidence level not specified	

**Site Disturbance** Complete clearing. Pasture, native or improved, cultivated at some stage

**Vegetation**

**Surface Coarse Fragments** 10-20%, , subrounded, Ironstone; 2-10%, , subrounded, Ferricrete

**Profile Morphology**

A11 0 - 0.1 m	; Sandy loam; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Field pH 6.5 (pH meter); Clear change to -
A21 0.1 - 0.25 m	Brown (10YR5/3-Moist); ; Sandy loam; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; 10-20%, fine gravelly, 2-6mm, subrounded, Ironstone, coarse fragments; Field pH 6.6 (pH meter); Gradual change to -
B11c 0.25 - 0.35 m	Yellowish brown (10YR5/4-Moist); ; Sandy clay loam; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; 20-50%, medium gravelly, 6-20mm, subrounded, Ferricrete, coarse fragments; Field pH 6.5 (pH meter); Abrupt change to -
B21t 0.35 - 0.55 m	Brownish yellow (10YR6/6-Moist); Mottles, 2.5YR48, 10-20% , 0-5mm, Distinct; Medium clay; Weak grade of structure, <2 mm, Subangular blocky; Earthy fabric; Moderately moist; Field pH 5.9 (pH meter);

**Morphological Notes**

**Observation Notes**

**Site Notes**

Site on lower slope of rise, above drainage area. Brown gravelly sandy loam over medium clay. Sample collected for sodicity analysis.

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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			%

0.35 - 0.55	4.9B 5.7H	5B	0.97H	3.14	0.06	0.26	0.1J	4.43D
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Depth	CaCO <sub>3</sub>	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m <sup>3</sup>			%	
0.35 - 0.55									20I		8
72											

#### **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
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 (Ca <sup>2+</sup> , Mg <sup>2+</sup> , Na <sup>+</sup> , K <sup>+</sup> ) 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_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
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded