

Project Name: Tonebridge land resources survey
Project Code: TON **Site ID:** 0796 **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.:	6221256 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	474694 Datum: AGD84	Drainage:	Well drained

Geology

ExposureType:	Existing vertical exposure	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:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	4 %	Aspect:	90 degrees

Surface Soil Condition Firm

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Ferric Mesotrophic Brown Kandosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Disturbance Highly disturbed, for example, quarrying, roadworks, mining, landfill, urban

Vegetation

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

Profile Morphology

A11hc 0 - 0.07 m (grains prominent)	Dark brown (10YR3/3-Moist); ; Loamy sand; Single grain grade of structure; Sandy fabric; Moderately moist; Loose consistence; 20-50%, fine gravelly, 2-6mm, subrounded, Ironstone, coarse fragments; 10-20%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; Strongly water repellent, "Abrupt, Smooth change to -
A2c 0.07 - 0.47 m Sandy (grains subrounded, coarse	Yellowish brown (10YR5/8-Moist); ; Fine sandy loam; Single grain grade of structure; prominent) fabric; Moderately moist; Loose consistence; 20-50%, fine gravelly, 2-6mm, Ironstone, coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, Ironstone, fragments; Gradual, Irregular change to -
B11c 0.47 - 0.75 m Sandy (grains subrounded, coarse	Yellowish brown (10YR5/6-Moist); ; Sandy clay loam; Single grain grade of structure; prominent) fabric; Moderately moist; Loose consistence; 20-50%, fine gravelly, 2-6mm, Ironstone, coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, Ironstone, fragments; Gradual, Irregular change to -
B12c 0.75 - 1.05 m Single grain 20-50%, fine 20mm,	Yellowish brown (10YR5/6-Moist); , 7.5YR56, 10-20% , 0-5mm, Distinct; Sandy clay loam; grade of structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; gravelly, 2-6mm, subrounded, Ironstone, coarse fragments; 20-50%, medium gravelly, 6-subrounded, Ironstone, coarse fragments; Gradual, Irregular change to -
B2c 1.05 - 1.35 m Moderately moist;	Yellowish brown (10YR5/6-Moist); , 7.5YR56, 20-50% , 0-5mm, Distinct; Clay loam; 20-50%, fine gravelly, 2-6mm, subrounded, Ironstone, coarse fragments;

Morphological Notes

B11c Texture : SCLGR

B12c Texture : SCLGR
B2c Texture: CLGR

Observation Notes

Site Notes

Profile description from vertical face in gravel pit.

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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	5B 6H	5B	9.57H	3	0.26	0.19	0.28J		13.02D	
0.07 - 0.47	5.7B 6.8H	2B	1.84A	1.25	0.22	0.08			3.39D	
0.47 - 0.75	5.9B 7.1H	2B	1.12A	1.35	0.16	0.09			2.72D	
0.75 - 1.05	6B 7.1H	2B	1.08A	2.04	0.19	0.11			3.42D	
1.05 - 1.35	6B 6.9H	4B	0.91A	2.3	0.2	0.31			3.72D	

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 - 0.07 3.4		6.18D		190B							5.1
0.07 - 0.47 8.1		0.61D		85B							4.3
0.47 - 0.75 12.3		0.35D		90B							3.8
0.75 - 1.05 20.5		0.32D		93B							5.4
1.05 - 1.35 31.8		0.24D		76B							7.6

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
15A1_CA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_CEC for soluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA salts	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

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
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)

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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)