

Project Name: Wellington Blackwood land resources survey
Project Code: WBW **Site ID:** 0994 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Peter Tille	Locality:	
Date Desc.:	19/11/92	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6259937 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	459578 Datum: AGD84	Drainage:	No Data

Geology

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

Landform

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	6 %	Aspect:	No Data

Surface Soil Condition Hardsetting

Erosion

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mesotrophic Mottled-Subnatic Yellow Sodosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A
Analytical data are incomplete but reasonable confidence.			

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A1	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); ; Fine sandy loam; Massive grade of structure, ; Sandy (grains prominent)
		fabric; Moist; Clear change to -
A2	0.1 - 0.5 m	Brown (7.5YR4/4-Moist); ; Fine sandy loam; Massive grade of structure; Sandy (grains prominent)
		fabric; Moist; 2-10%, fine gravelly, 2-6mm, Ironstone, coarse fragments; Clear change to -
B1	0.5 - 0.6 m	Brownish yellow (10YR6/6-Moist); , 2.5YR58, 2-10% ; Sandy light clay; Massive grade of structure,
		Polyhedral; Sandy (grains prominent) fabric; Moist; 20-50%, medium gravelly, 6-20mm, Ironstone, coarse
		fragments;
B21	0.6 - 0.9 m	Yellowish brown (10YR5/6-Moist); , 2.5YR58, 20-50% ; , 10YR83; Silty medium clay;
		Moderate grade of structure, 200-500 mm, Prismatic; Smooth-ped fabric; Moist;
B22	0.9 - 1.1 m	Pale red (2.5YR7/2-Moist); , 10YR76, 20-50% ; , 7.5YR68; Silty medium clay; , Prismatic;
		Smooth-ped fabric; Moist;
B32	1.1 - 1.3 m	Brownish yellow (10YR6/8-Moist); , 20-50% ; Silty light clay;
B32	1.3 - 1.6 m	White (10YR8/2-Moist); ; Silty light clay;
C	1.6 - 1.7 m	White (10YR8/2-Moist); ;
	1.7 - m	;

Morphological Notes

A2	structure - sandy with root pore. Colour to 5/6
B1	Tiny polyhedral with smooth fabric
B32	MOTTLES 40% RED
C	WEATHERED ROCK. SOIL TYPE YBL (DUPLEX)

Observation Notes

Site Notes

[lab data suggests sandy duplex]

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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 - 0.1	4.8B 5.7H	6B	6.26H	0.78	0.2	0.27	0.58J		7.51D	
0.1 - 0.5	5.6B 6.5H	4B	5.97H	1.67	0.06	0.22	0.02J		7.92D	
0.5 - 0.6	5.6B 6.8H	3B	1.16A	1.54	0.02	0.28			3D	
0.6 - 0.9	6B 6.9H	5B	0.96A	2.38	0.02	0.46			3.82D	
0.9 - 1.1	6.1B 7.2H	7B	1.14A	3.43	0.05	0.68			5.3D	
1.1 - 1.3	6.1B 7.4H	7B	1.4A	4.38	0.04	0.92			6.74D	
1.3 - 1.6	6.2B 7.5H	6B	1.03A	3.53	0.02	0.83			5.41D	
1.6 - 1.7	6.5B 7.8H	7B	0.93A	4.68	0.06	1.47			7.14D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.1		5.92D		620B	0.424E			18.8
7.2								
0.1 - 0.5		1.78D		220B	0.133E			14
8								
0.5 - 0.6		0.4D		82B	0.034E			8
19.1								
0.6 - 0.9		0.15D		41B	0.012E			10.5
44.8								
0.9 - 1.1		0.1D		34B	0.007E			13.4
48.4								
1.1 - 1.3		0.18D		34B	0.01E			30.2
45.9								
1.3 - 1.6		0.12D		33B	0.008E			33.5
30								
1.6 - 1.7		0.06D		21B	0.003E			47.7
29.6								

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
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 (Mn ²⁺) 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

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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
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
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)