Project Name: **Wellington Blackwood land resources survey**
Project Code: **WBW** **Site ID:** **0990** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Peter Tille	**Locality:**	
Date Desc.:	12/11/92	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6241852 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	414490 Datum: AGD84	**Drainage:**	No Data

Geology

ExposureType:	Soil pit	**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:	Crest	**Relief:**	No Data
Elem. Type:	No Data	**Slope Category:**	No Data
Slope:	6 %	**Aspect:**	No Data

Surface Soil Condition

Firm

Erosion

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site Disturbance

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

Vegetation

Surface Coarse Fragments

2-10%, medium gravelly, 6-20mm, , Ironstone

Profile Morphology

Ap 0 - 0.15 m Dark reddish brown (5YR3/2-Moist); ; Fine sandy loam; Weak grade of structure, ; Moist; 2-10%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments;

A31 0.15 - 0.3 m Dark reddish brown (5YR3/2-Moist); ; Fine sandy loam; Weak grade of structure, Polyhedral; Massive grade of structure, ; Rough-ped fabric; Moist; 20-50%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments;

A32 0.3 - 0.45 m Yellowish red (5YR4/6-Moist); ; Fine sandy clay loam; Weak grade of structure, Polyhedral; , ; Rough-ped fabric; Moist; 20-50%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments;

B21t 0.45 - 0.6 m Reddish yellow (5YR6/6-Moist); , 20-50% , Faint; Light medium clay; Weak grade of structure, Polyhedral; Smooth-ped fabric; Moist; 2-10%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments;

B22t 0.6 - 1.5 m Reddish yellow (7.5YR6/8-Moist); , 2.5YR58, 20-50% ; Light clay; Moderate grade of structure, Polyhedral; Smooth-ped fabric; Moist;

1.5 - 1.8 m ;

Morphological Notes

A31	only a few pores
B21t	orange mottles
B22t	some large areas of what appear to be weathered bedrock

Observation Notes

Site Notes

watertable >15m

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.15	4.7B 5.4H	7B	5.01H	0.41	0.27	0.07	0.88J		5.76D	
0.15 - 0.3	5.4B 6.2H	3B	3.84H	0.66	0.12	0.08	0.03J		4.7D	
0.3 - 0.45	5.7B 6.4H	3B	2.38H	0.75	0.08	0.08	<0.02J		3.29D	
0.45 - 0.6	5.9B 6.4H	3B	2.35H	1.03	0.05	0.07	<0.02J		3.5D	
0.6 - 0.9	6.1B 6.4H	4B	1.48H	1.43	<0.02	0.05	<0.02J		2.97D	
0.9 - 1.2	6.2B 6.3H	5B	1.04H	1.35	<0.02	0.04	<0.02J		2.44D	
1.2 - 1.5	6.2B 6.1H	3B	0.63H	1.28	<0.02	0.03	<0.02J		1.95D	
1.5 - 1.8	6B 5.7H	3B	0.72H	1.27	<0.02	0.04	<0.02J		2.04D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0 - 0.15		5.24D		510B	0.351E						12.3
3.8											
0.15 - 0.3		1.04D		120B	0.069E						8.1
13.7											
0.3 - 0.45		0.43D		76B	0.03E						7.6
26.9											
0.45 - 0.6		0.42D		74B	0.031E						10.7
45.3											
0.6 - 0.9		0.25D		51B	0.02E						20
44.8											
0.9 - 1.2		0.13D		34B	0.011E						20.3
39.9											
1.2 - 1.5		0.16D		40B	0.012E						18
24.6											
1.5 - 1.8		0.16D		46B	0.012E						14.2
26.2											

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - 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
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)

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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)