

Project Name: Wellington Blackwood land resources survey
Project Code: WBW **Site ID:** 1081 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Peter Tille	Locality:	
Date Desc.:	28/01/93	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6304013 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	427239 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:	Mid-slope	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	6 %	Aspect:	No Data

Surface Soil Condition Soft

Erosion

Soil Classification

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

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

Vegetation

Surface Coarse Fragments 0-2%, medium gravelly, 6-20mm, , Ironstone

Profile Morphology

A1	0 - 0.1 m	Very dark grey (2.5Y3/1-Moist); ; Loamy sand; Single grain grade of structure, Granular; Sandy (grains
		fragments; 2-10%,
		prominent) fabric; 10-20%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse
		fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Clear change to -
A2	0.1 - 0.4 m	Very pale brown (10YR7/3-Moist); ; Sand; Single grain grade of structure, Granular;
		Sandy (grains
		fragments; 2-10%,
		prominent) fabric; 50-90%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse
		fine gravelly, 2-6mm, rounded, Quartz, coarse fragments;
A3	0.4 - 0.5 m	Light yellowish brown (10YR6/4-Moist); ; Sandy loam; Single grain grade of structure,
		Granular; Sandy
		coarse fragments;
		(grains prominent) fabric; 50-90%, medium gravelly, 6-20mm, subrounded, Ironstone,
		2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Clear change to -
B1	0.5 - 0.85 m	Yellow (10YR7/6-Moist); , 10YR68, 2-10% , Faint; Coarse sandy light clay; Massive grade
		of structure,
		coarse
		Polyhedral; Rough-ped fabric; 20-50%, medium gravelly, 6-20mm, subangular, Ironstone,
		fragments; Gradual change to -
B21	0.85 - 1.3 m	White (2.5Y8/2-Moist); , 10YR68, 20-50% , Distinct; Coarse sandy medium clay; Massive
		grade of
		Ironstone, coarse
		structure, Polyhedral; Smooth-ped fabric; 10-20%, coarse gravelly, 20-60mm, angular,
		fragments; Gradual change to -
B22	1.3 - 1.6 m	White (2.5Y8/2-Moist); , 10YR68, 20-50% , Distinct; Medium heavy clay; Massive grade
		of structure,
		Polyhedral; Smooth-ped fabric;

Morphological Notes

B1 MOTTLE COLOUR ORANGE

Observation Notes

Site Notes

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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	4.5B 5.2H	10B	5.63H	0.8	0.33	0.22	0.54J		6.98D	
0.1 - 0.4	4.3B 5.1H	1B	0.24H	0.05	<0.02	<0.02	0.31J		0.31D	
0.4 - 0.5	4.6B 5.4H	1B	0.52H	0.13	0.02	0.02	0.27J		0.69D	
0.5 - 0.85	5B 5.7H	2B	1.04H	0.49	<0.02	0.02	0.04J		1.56D	
0.85 - 1.3	6B 5.9H	2B	0.47H	1.64	<0.02	0.02	<0.02J		2.14D	

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 - 0.1		3.16D		200B	0.231E			2
1.7								
0.1 - 0.4		0.26D		53B	0.023E			1.5
2.2								
0.4 - 0.5		0.34D		66B	0.026E			2.1
5.7								
0.5 - 0.85		0.35D		100B	0.025E			5.3
25								
0.85 - 1.3		0.09D		170B	0.01E			12.7
54								

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)
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)