

Project Name: Wellington Blackwood land resources survey
Project Code: WBW **Site ID:** 1078 **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.:	6316256 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	434671 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:	Upper-slope	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	%	Aspect:	No Data

Surface Soil Condition Firm

Erosion

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Ferric Dystrophic Yellow Chromosol		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 20-50%, medium gravelly, 6-20mm, , Ironstone

Profile Morphology

A1	0 - 0.1 m	Very dark grey (7.5YR3/0-Moist); ; Sandy loam; Weak grade of structure, ; Sandy (grains prominent)
		fabric; 20-50%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments;
		Water repellent;
		Field pH 5 (Raupach);
A3	0.1 - 0.35 m	Reddish yellow (7.5YR6/6-Moist); ; Sandy loam; Weak grade of structure, ; Sandy (grains prominent)
		fabric; 50-90%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments;
		Field pH 6.5
		(Raupach);
B1	0.35 - 0.45 m	Reddish yellow (7.5YR6/6-Moist); , 2-10% ; Coarse sandy light clay; Weak grade of structure; 50-90%,
		coarse gravelly, 20-60mm, subrounded, Ironstone, coarse fragments; Field pH 6.5
		(Raupach);
B21	0.45 - 0.8 m	Reddish yellow (7.5YR7/8-Moist); , 2.5YR36, 2-10% ; Light clay; Moderate grade of structure,
		Polyhedral; Rough-ped fabric; 20-50%, medium gravelly, 6-20mm, angular, Ironstone,
		coarse fragments;
		Field pH 7 (Raupach);
B22	0.8 - 1.5 m	Brownish yellow (10YR6/8-Moist); , 20-50% ; Light clay; Moderate grade of structure,
		Polyhedral; 2-10%,
		medium gravelly, 6-20mm, subangular, coarse fragments;
R	- m	Rock

Morphological Notes

A3	LOOSE TO VERY WEAKLY MASSIVE
B1	MOTTLE COLOUR ORANGE
B21	INCREASINGLY WEATHERED QTZ
B22	MOTTLE COLOUR RED & PALE YELLOW
R	WEATHERED BEDROCK

Observation Notes

Site Notes

Some laterite upslope.

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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 5.5H	6B	3.96H	0.53	0.18	0.16	0.72J		4.83D	
0.1 - 0.35	5.1B 6H	1B	0.65H	0.18	<0.02	<0.02	0.08J		0.85D	
0.35 - 0.45	5.2B 6.1H	1B	0.52H	0.48	<0.02	0.02	0.04J		1.03D	
0.45 - 0.8	6.1B 6.1H	1B	0.52H	1.82	<0.02	<0.02	<0.02J		2.36D	
0.8 - 1.2	6.2B 6.2H	1B	0.55H	2.1	<0.02	0.06	0.02J		2.72D	

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		4.04D		240B	0.23E			4.7
0.1 - 0.35		0.31D		53B	0.02E			3
0.35 - 0.45		0.29D		63B	0.02E			4.5
0.45 - 0.8		0.25D		66B	0.018E			11.9
0.8 - 1.2		0.24D		58B	0.014E			15.3

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)