Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0561** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	20/11/92	**Elevation:**	258 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6267770 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	481220 Datum: AGD84	**Drainage:**	Moderately well drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	No Data

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	**Pattern Type:**	Low hills
Morph. Type:	Mid-slope	**Relief:**	40 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	3 %	**Aspect:**	0 degrees

Surface Soil Condition

Hardsetting, Hardsetting

Erosion:

(wind); (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification:		**Mapping Unit:**	N/A
Bleached-Ferric Mesotrophic Yellow Chromosol		**Principal Profile Form:**	Dy3.42
ASC Confidence:		**Great Soil Group:**	N/A

All necessary analytical data are available.

Site

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

Vegetation:

Surface Coarse

50-90%, medium gravelly, 6-20mm, rounded, ; 10-20%, , subrounded,

Profile

A1 0 - 0.1 m Dark brown (10YR3/3-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Dry; Loose consistence; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Abundant, fine (1-2mm) roots; Abrupt, Smooth change to -

A2e 0.1 - 0.35 m Light yellowish brown (10YR6/4-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Dry; Loose consistence; 50-90%, medium gravelly, 6-20mm, subangular, , coarse fragments; Field pH 6.5 (Raupach); Many, fine (1-2mm) roots; Abrupt, Smooth change to -

B21t 0.35 - 0.5 m Light yellowish brown (10YR6/4-Moist); Mottles, 10YR68, 2-10% , 5-15mm, Distinct; Sandy light medium clay; Weak grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Dry; Firm consistence; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; Many (20 - 50 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 6.5 (Raupach); Common, fine (1-2mm) roots; Clear, Wavy change to -

B22 0.5 - 1.2 m Reddish yellow (7.5YR6/8-Moist); Mottles, 2.5YR48, 20-50% , 15-30mm, Prominent; Medium clay; Strong grade of structure, 20-50 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; 10-20%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 7 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

A1 moist top 5cm

Observation Notes

Site Notes

Lower Balgarup soil pit 5

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m				Cmol (+)/kg				%
0 - 0.1	5.3B 6.2H 5.3B 6.1H	8B	5.78H	1.1	0.41	0.17	0.12J		7.46D	
0 - 0.1	5.3B 6.2H 5.3B 6.1H	8B	5.78H	1.1	0.41	0.17	0.12J		7.46D	
0 - 0.1	5.3B 6.2H 5.3B 6.1H	8B	5.78H	1.1	0.41	0.17	0.12J		7.46D	
0 - 0.1	5.3B 6.2H 5.3B 6.1H	8B	5.78H	1.1	0.41	0.17	0.12J		7.46D	
0.1 - 0.35	5.4B 6.4H	3B	1.4H	0.5	0.11	0.05	0.06J		2.06D	
0.1 - 0.35	5.4B 6.4H	3B	1.4H	0.5	0.11	0.05	0.06J		2.06D	
0.35 - 0.5	5.4B 6.4H	3B	1.07H	1.46	0.12	0.09	0.03J		2.74D	
0.35 - 0.5	5.4B 6.4H	3B	1.07H	1.46	0.12	0.09	0.03J		2.74D	
0.5 - 0.85	5.8B 6.2H	5B	0.71H	2.92	0.06	0.14	0.02J		3.83D	
0.5 - 0.85	5.8B 6.2H	5B	0.71H	2.92	0.06	0.14	0.02J		3.83D	
0.85 - 1.2	5.3B 5.7H	5B	0.16H	3.62	0.04	0.23	0.04J		4.05D	
0.85 - 1.2	5.3B 5.7H	5B	0.16H	3.62	0.04	0.23	0.04J		4.05D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		4.16D		510B	0.267E						4.9	3.1
		3.86D		520B	0.24E							
0 - 0.1		4.16D		510B	0.267E						4.9	3.1
		3.86D		520B	0.24E							
0 - 0.1		4.16D		510B	0.267E						4.9	3.1
		3.86D		520B	0.24E							
0 - 0.1		4.16D		510B	0.267E						4.9	3.1
		3.86D		520B	0.24E							
0.1 - 0.35		0.54D		64B	0.028E						5.3	7.6
0.1 - 0.35		0.54D		64B	0.028E						5.3	7.6
0.35 - 0.5		0.34D		43B	0.018E						7.7	26.6
0.35 - 0.5		0.34D		43B	0.018E						7.7	26.6
0.5 - 0.85		0.2D		44B	0.009E						11.8	55.3
0.5 - 0.85		0.2D		44B	0.009E						11.8	

55.3

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0.85 - 1.2	0.17D	39B	0.007E		15.1
62.4					
0.85 - 1.2	0.17D	39B	0.007E		15.1
62.4					

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
18A1_NR	Bicarbonate-extractable potassium (not recorded)
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
9B_NR	Bicarbonate-extractable phosphorus (not recorded)
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_gt2m	> 2mm 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)