Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0726** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	19/02/93	**Elevation:**	339 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6330240 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	536750 Datum: AGD84	**Drainage:**	Rapidly 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: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type:	Mid-slope	**Relief:**	20 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	3 %	**Aspect:**	90 degrees

Surface Soil Condition Loose

Erosion: (wind); (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
Basic Ferric Bleached-Orthic Tenosol **Principal Profile Form:** Uc1.21
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 No surface coarse fragments; No surface coarse fragments

Profile

A1 0 - 0.1 m Grey (10YR5/1-Moist); , 0-0% ; Sand; Single grain grade of structure; Dry; Loose consistence; Strongly water repellent, "Field pH 6 (Raupach); Common, fine (1-2mm) roots; Clear, Wavy change to -

A2e 0.1 - 1 m White (10YR8/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Dry; Loose consistence; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Abrupt, Smooth change to -

Bcw 1 - 1.7 m Pale yellow (2.5Y7/3-Moist); , 0-0% ; Single grain grade of structure; Moderately moist; 50-90%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

Bcw Cemented pockets - most roots in loose gravel.

Observation Notes

Site Notes

Buchanan catchment soil pit 3

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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 - 0.1	5.1B 6H 5.4B 6.3H	4B 5B	1.88H	0.25	0.06	0.03	0.06J		2.22D	

	5.3B							
0 - 0.1	5.1B	4B	1.88H	0.25	0.06	0.03	0.06J	2.22D
	6H	5B						
	5.4B							
	6.3H							
	5.3B							
0 - 0.1	5.1B	4B	1.88H	0.25	0.06	0.03	0.06J	2.22D
	6H	5B						
	5.4B							
	6.3H							
	5.3B							
0 - 0.1	5.1B	4B	1.88H	0.25	0.06	0.03	0.06J	2.22D
	6H	5B						
	5.4B							
	6.3H							
	5.3B							
0 - 0.1	5.1B	4B	1.88H	0.25	0.06	0.03	0.06J	2.22D
	6H	5B						
	5.4B							
	6.3H							
	5.3B							
0.1 - 0.4	4.8B	1B	0.09H	<0.02	<0.02	<0.02	0.02J	0.12D
	5.7H							
0.1 - 0.4	4.8B	1B	0.09H	<0.02	<0.02	<0.02	0.02J	0.12D
	5.7H							
0.15 - 0.25	4.9B							
0.4 - 0.7	4.8B	1B	0.04H	<0.02	<0.02	<0.02	0.02J	0.07D
	5.5H							
0.4 - 0.7	4.8B	1B	0.04H	<0.02	<0.02	<0.02	0.02J	0.07D
	5.5H							
0.4 - 0.5	4.8B							
0.7 - 1	5B	3B	0.17H	0.48	0.06	0.02	0.03J	0.73D
	5.4H							
0.7 - 1	5B	3B	0.17H	0.48	0.06	0.02	0.03J	0.73D
	5.4H							
1 - 1.4	5B	1B	0.11H	0.04	<0.02	<0.02	0.14J	0.17D
	5.8H							
1 - 1.4	5B	1B	0.11H	0.04	<0.02	<0.02	0.14J	0.17D
	5.8H							

Depth	**CaCO3**	**Organic C** **Clay**	**Avail. P**	**Total P**	**Total N**	**Total K**	**Bulk Density**	**GV**	**Particle CS**	**Size FS**	**Analysis Silt**
m	**%**	**%**	**mg/kg**	**%**	**%**	**%**	**Mg/m3**			**%**	
0 - 0.1		0.79D		78B	0.053E						1.1
1											
		0.71D		62B	0.044E						

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0 - 0.1	0.79D	78B	0.053E	1.1
1				
	0.71D	62B	0.044E	
0 - 0.1	0.79D	78B	0.053E	1.1
1				
	0.71D	62B	0.044E	
0 - 0.1	0.79D	78B	0.053E	1.1
1				
	0.71D	62B	0.044E	
0 - 0.1	0.79D	78B	0.053E	1.1
1				
	0.71D	62B	0.044E	
0.1 - 0.4	0.06D	12B	0.006E	1.1
0.3				
0.1 - 0.4	0.06D	12B	0.006E	1.1
0.3				
0.15 - 0.25				
0.4 - 0.7	0.02D	9B	0.004E	0.8
0.6				
0.4 - 0.7	0.02D	9B	0.004E	0.8
0.6				
0.4 - 0.5				
0.7 - 1	0.06D	14B	0.006E	3.9
16				
0.7 - 1	0.06D	14B	0.006E	3.9
16				
1 - 1.4	0.1D	25B	0.008E	1.3
1				
1 - 1.4	0.1D	25B	0.008E	1.3
1				

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)