Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0800** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	14/05/93	**Elevation:**	309 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6344500 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	543920 Datum: AGD84	**Drainage:**	Imperfectly 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:	Footslope	**Slope Category:**	No Data
Slope:	3 %	**Aspect:**	270 degrees

Surface Soil Condition

Loose

Erosion:

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

Soil Classification

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

Mapping Unit: N/A
Principal Profile Form: Uc2.12
Great Soil Group: N/A

Site

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

Vegetation:

Surface Coarse

No surface coarse fragments; No surface coarse fragments

Profile

A11 0 - 0.1 m Grey (10YR5/1-Moist); , 0-0% ; Sand; Single grain grade of structure; Dry; Loose consistence; 0-2%, fine gravelly, 2-6mm, rounded, , coarse fragments; Strongly water repellent, "Field pH 6.5 (Raupach); Abundant, very fine (0-1mm) roots; Abrupt, Smooth change to -

A12 0.1 - 0.15 m Greyish brown (10YR5/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; Loose consistence; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Abrupt, Smooth change to -

A21e 0.15 - 0.4 m Light grey (10YR7/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; Loose consistence; 10-20%, fine gravelly, 2-6mm, rounded, , coarse fragments; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; Clear, Wavy change to -

A22ec 0.4 - 0.7 m Light grey (10YR7/2-Moist); , 0-0% ; Single grain grade of structure; Moist; Loose consistence; 50-90%, fine gravelly, 2-6mm, rounded, , coarse fragments; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; Clear, Wavy change to -

B2tc 0.7 - 0.9 m Brownish yellow (10YR6/6-Moist); Mottles, 10R48, 20-50% , 5-15mm, Distinct; Massive grade of structure; Moderately moist; Weak consistence; 50-90%, fine gravelly, 2-6mm, rounded, , coarse fragments; 10-20%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Very many (50 - 100 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 7 (Raupach);

Morphological Notes

B2tc Water level at 90cm. Cracks in this layer are filled with white sand (medium sandy clay loam) and roots. appears to be wet ferricrete

Observation Notes

Site Notes

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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	5.4B 6.1H 5.3B 6H 5.2B	8B 13B	4.56H	1.05	0.13	0.08	<0.02J		5.82D	
0 - 0.1	5.4B 6.1H 5.3B 6H 5.2B	8B 13B	4.56H	1.05	0.13	0.08	<0.02J		5.82D	
0 - 0.1	5.4B 6.1H 5.3B 6H 5.2B	8B 13B	4.56H	1.05	0.13	0.08	<0.02J		5.82D	
0 - 0.1	5.4B 6.1H 5.3B 6H 5.2B	8B 13B	4.56H	1.05	0.13	0.08	<0.02J		5.82D	
0 - 0.1	5.4B 6.1H 5.3B 6H 5.2B	8B 13B	4.56H	1.05	0.13	0.08	<0.02J		5.82D	
0.1 - 0.15	5.4B 6.1H	9B	1.91H	0.45	0.04	0.08	<0.02J		2.48D	
0.1 - 0.15	5.4B 6.1H	9B	1.91H	0.45	0.04	0.08	<0.02J		2.48D	
0.15 - 0.4	5.3B 6H	4B	0.36H	0.14	0.05	0.03	0.02J		0.58D	
0.15 - 0.4	5.3B 6H	4B	0.36H	0.14	0.05	0.03	0.02J		0.58D	
0.15 - 0.25	5.5B									
0.4 - 0.7	5.1B 5.9H	2B	0.21H	0.1	0.05	<0.02	0.03J		0.37D	
0.4 - 0.7	5.1B 5.9H	2B	0.21H	0.1	0.05	<0.02	0.03J		0.37D	
0.4 - 0.5	5B									
0.7 - 0.9	5.7B 6.6H	6B	0.28A	2.31	0.11	0.4			3.1D	
0.7 - 0.9	5.7B 6.6H	6B	0.28A	2.31	0.11	0.4			3.1D	

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		2.24D		150B	0.176E						1.4	2.4
		1.36D		89B	0.098E							

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0 - 0.1	2.24D	150B	0.176E		1.4
2.4					
	1.36D	89B	0.098E		
0 - 0.1	2.24D	150B	0.176E		1.4
2.4					
	1.36D	89B	0.098E		
0 - 0.1	2.24D	150B	0.176E		1.4
2.4					
	1.36D	89B	0.098E		
0 - 0.1	2.24D	150B	0.176E		1.4
2.4					
	1.36D	89B	0.098E		
0.1 - 0.15	0.64D	48B	0.039E		1.6
2.2					
0.1 - 0.15	0.64D	48B	0.039E		1.6
2.2					
0.15 - 0.4	0.16D	28B	0.013E		1.7
1.4					
0.15 - 0.4	0.16D	28B	0.013E		1.7
1.4					
0.15 - 0.25					
0.4 - 0.7	0.1D	24B	0.011E		1.8
1.9					
0.4 - 0.7	0.1D	24B	0.011E		1.8
1.9					
0.4 - 0.5					
0.7 - 0.9	0.16D	29B	0.016E		2
25.2					
0.7 - 0.9	0.16D	29B	0.016E		2
25.2					

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
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
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
15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using Sum of Cations and measured clay
15N1_a	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
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

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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)