Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0161** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	14/04/92	**Elevation:**	334 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6273830 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	553910 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:	Undulating low hills 30-90m 3-10%	**Pattern Type:**	Low hills
Morph. Type:	Crest	**Relief:**	40 metres
Elem. Type:	Hillcrest	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	180 degrees

Surface Soil Condition Loose

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

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
No Available Class No Available Class Arenic Rudosol **Principal Profile Form:** Uc1.21
ASC Confidence: **Great Soil Group:** N/A
Analytical data are incomplete but reasonable confidence.

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% ; Coarse sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Water repellent; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Abrupt, Smooth change to -

A3e 0.1 - 0.25 m Light brownish grey (10YR6/2-Moist); , 0-0% ; Coarse sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Clear, Smooth change to -

Ce 0.25 - 0.8 m White (10YR8/1-Moist); , 0-0% ; Coarse sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Field pH 6.5 (Raupach); Many, very fine (0-1mm) roots; Abrupt, Wavy change to -

Ccm 0.8 - 1 m , 0-0% ; Massive grade of structure;

Morphological Notes

A1	SAMPLED
A3e	SAMPLED
Ce	SAMPLED
Ccm	CEMENTED ROUGHFACED IRONSTONE

Observation Notes

Site Notes

Slight wind erosion due to prudent management

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			

m		dS/m				Cmol (+)/kg				%
0 - 0.1	5B 6.1H 4.8B 5.8H	3B	1.47H	0.13	0.03	<0.02	0.03J		1.64D	
0 - 0.1	5B 6.1H 4.8B 5.8H	3B	1.47H	0.13	0.03	<0.02	0.03J		1.64D	
0 - 0.1	5B 6.1H 4.8B 5.8H	3B	1.47H	0.13	0.03	<0.02	0.03J		1.64D	
0 - 0.11	4.76B									
0 - 0.1	5B 6.1H 4.8B 5.8H	3B	1.47H	0.13	0.03	<0.02	0.03J		1.64D	
0.1 - 0.25	4.7B 5.6H	1B	0.21H	0.03	<0.02	<0.02	0.05J		0.26D	
0.1 - 0.25	4.7B 5.6H	1B	0.21H	0.03	<0.02	<0.02	0.05J		0.26D	
0.11 - 0.16	4.69B									
0.25 - 0.8	5.1B 5.8H	1B	0.02H	0.02	<0.02	<0.02	0.02J		0.06D	
0.25 - 0.8	5.1B 5.8H	1B	0.02H	0.02	<0.02	<0.02	0.02J		0.06D	
0.26 - 0.31	4.76B									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1		0.63D		57B	0.037E						1.3
0.6		0.79D		57B	0.047E						
0 - 0.1		0.63D		57B	0.037E						1.3
0.6		0.79D		57B	0.047E						
0 - 0.1		0.63D		57B	0.037E						1.3
0.6		0.79D		57B	0.047E						
0 - 0.11											
0 - 0.1		0.63D		57B	0.037E						1.3
0.6		0.79D		57B	0.047E						
0.1 - 0.25		0.16D		17B	0.006E						1.3
0.3											
0.1 - 0.25		0.16D		17B	0.006E						1.3
0.3											
0.11 - 0.16											
0.25 - 0.8		0.03D		15B	0.003E						1.2
0.3											
0.25 - 0.8		0.03D		15B	0.003E						1.2
0.3											
0.26 - 0.31											

Laboratory Analyses Completed for this profile

15_NR_BSa Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available

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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)