Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **1159** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	13/08/93	**Elevation:**	360 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6331190 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	550580 Datum: AGD84	**Drainage:**	Well drained

Geology

ExposureType:	Auger boring	**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:	Upper-slope	**Relief:**	30 metres
Elem. Type:	Hillcrest	**Slope Category:**	No Data
Slope:	3 %	**Aspect:**	270 degrees

Surface Soil Condition

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: Dy5.61
Great Soil Group: N/A

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

Vegetation:

Surface Coarse 20-50%, medium gravelly, 6-20mm, subrounded, ; No surface coarse fragments

Profile

A1p 0 - 0.1 m Dark greyish brown (10YR4/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; 50-90%, fine gravelly, 2-6mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Abundant, very fine (0-1mm) roots; Abrupt change to -

A2 0.1 - 0.15 m Brown (10YR5/3-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moderately moist; 50-90%, fine gravelly, 2-6mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Clear change to -

B2 0.15 - 0.6 m Brownish yellow (10YR6/8-Moist); Mottles, 2.5YR46, 2-10% , 5-15mm, Distinct; Clay loam, sandy; Weak grade of structure; Moderately moist; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; 10-20%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Clear change to -

B3 0.6 - 0.8 m Strong brown (7.5YR5/6-Moist); Mottles, 2.5YR46, 20-50% , 5-15mm, Distinct; Sandy light medium clay; Weak grade of structure; Rough-ped fabric; Moderately moist; Field pH 6 (Raupach); Gradual change to -

C11 0.8 - 0.9 m Dusky red (10R3/4-Moist); Mottles, 7.5YR71, 20-50% , 15-30mm, Distinct; Medium clay; Moderate grade of structure; Smooth-ped fabric; Dry; Strong consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 6 (Raupach);

C12 0.9 - 1.1 m Light grey (7.5YR7/1-Moist); Mottles, 7.5R34, 20-50% , 15-30mm, Distinct; Medium clay; Strong grade of structure; Smooth-ped fabric; Dry; Strong consistence; Field pH 6.5 (Raupach);

Morphological Notes

B3 Kaolinised clay.
C11 Kaolinised clay.

C12 Kaolinised clay.

Observation Notes

Site Notes

Site along Collanilling Road.

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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	4.8B									
0.15 - 0.35	4.5B 5.4H	3B	0.59H	1.05	0.05	0.07	0.36J		1.76D	
0.15 - 0.35	4.5B 5.4H	3B	0.59H	1.05	0.05	0.07	0.36J		1.76D	
0.15 - 0.25	4.4B									
0.4 - 0.5	4.6B									

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											
0.15 - 0.35									64I		4
32											
0.15 - 0.35									64I		4
32											
0.15 - 0.25											
0.4 - 0.5											

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
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded