

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0353 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Jaki Hogstrom	Locality:	
Date Desc.:	27/07/92	Elevation:	370 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6256720 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	552170 Datum: AGD84	Drainage:	Moderately 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: Undulating low hills 30-90m 3-10% **Pattern Type:** Low hills

Morph. Type:	Crest	Relief:	50 metres
Elem. Type:	Summit surface	Slope Category:	No Data
Slope:	4 %	Aspect:	0 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
N/A		Principal Profile Form:	Dy3.41
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

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

Vegetation:

Surface Coarse 20-50%, medium gravelly, 6-20mm, angular, Quartz; 2-10%, , angular, Quartz

Profile

A1	0 - 0.12 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Moist; 20-50%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Field pH 5.5 (Raupach); Many, fine (1-2mm) roots; Abrupt change to -
A2e	0.12 - 0.25 m	Light brownish grey (10YR6/2-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moist; 10-20%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Abrupt, Smooth change to -
B21t	0.25 - 0.45 m	Pale brown (10YR6/3-Moist); Mottles, 5YR78, 10-20% , 0-5mm, Distinct; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots; Clear change to -
B22t	0.45 - 0.5 m	Light grey (10YR7/1-Moist); Mottles, 2.5YR46, 20-50% , 5-15mm, Prominent; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots; Clear change to -
B3	0.5 - 0.7 m	Light grey (10YR7/1-Moist); Mottles, 2.5YR44, 20-50% , 5-15mm, Prominent; Medium clay; Weak grade of structure; Rough-ped fabric; Moderately moist; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots; Gradual change to -
C	0.7 - 0.8 m	White (10YR8/1-Moist); Mottles, 2.5YR44, 20-50% , 5-15mm, Prominent; Light medium clay; Massive grade of structure; Dry; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 5.5 (Raupach);

Morphological Notes

B21t Very little kaolinite
 B22t With coarse sand grains. very little kaolinite
 B3 With coarse sand and very fine quartz. Kaolinitic

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.11	4.63B									
0.16 - 0.26	4.39B									
0.25 - 0.45	4.3B	7B	0.39H	1.7	0.09	0.41	0.57J		2.59D	
	5.4H									
0.25 - 0.45	4.3B	7B	0.39H	1.7	0.09	0.41	0.57J		2.59D	
	5.4H									
0.36 - 0.46	4B									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS Silt %
0 - 0.11								
0.16 - 0.26								
0.25 - 0.45								
0.25 - 0.45								
0.36 - 0.46								

Laboratory Analyses Completed for this profile

15_NR_CMV 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
 4B1 pH of 1:5 soil/0.01M calcium chloride extract - direct
 P10_gt2m > 2mm particle size analysis, (method not recorded)