

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0392 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 11/08/92	Elevation: 310 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6246410 AMG zone: 50	Runoff: No Data
Easting/Lat.: 552470 Datum: AGD84	Drainage: Poorly 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 rises 9-30m 3-10%	Pattern Type: Rises
Morph. Type: Lower-slope	Relief: 30 metres
Elem. Type: Hillslope	Slope Category: No Data
Slope: 4 %	Aspect: 270 degrees

Surface Soil Condition Hardsetting

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

Soil Classification

Australian Soil Classification: N/A	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: Dy3.43
	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

A1	0 - 0.15 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Wet; Loose
		consistence; Field pH 6 (Raupach); Abundant, fine (1-2mm) roots; Abrupt, Smooth change to -
A2e	0.15 - 0.3 m	Very pale brown (10YR7/4-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure; Wet;
		Loose consistence; Field pH 6.5 (Raupach); Common, fine (1-2mm) roots; Abrupt change to -
B21t	0.3 - 0.5 m	Light yellowish brown (10YR6/4-Moist); Mottles, 10YR68, 20-50% , 15-30mm, Distinct; Medium clay;
		Strong grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Field pH 7
		(Raupach); Common, fine (1-2mm) roots; Gradual change to -
B22t	0.5 - 0.7 m	Brownish yellow (10YR6/8-Moist); Mottles, 10YR64, 20-50% , 15-30mm, Faint; Mottles, 10R48, 10-20% ,
		5-15mm, Distinct; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm
		consistence; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 8 (Raupach);
		Common, very fine (0-1mm) roots; Clear change to -
B3	0.7 - 0.9 m	Brownish yellow (10YR6/8-Moist); Mottles, 10R48, 10-20% , 5-15mm, Distinct; Substrate influence,
		10YR81, 2-10% , 5-15mm, Distinct; Light clay; Weak grade of structure; Rough-ped fabric; Wet; 20-50%,
		medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Field pH 8.5 (Raupach); Clear change to
		-
C	0.9 - 1 m	Light grey (10YR7/2-Moist); Mottles, 10R48, 20-50% , 5-15mm, Distinct; Substrate influence, 10YR81,
		10-20% , 5-15mm, Distinct; Light clay; Weak grade of structure; Rough-ped fabric; Wet; 20-50%, medium
		gravelly, 6-20mm, angular, Quartz, coarse fragments; Field pH 8.5 (Raupach);

Morphological Notes

A2e Water entered in this layer
 B21t Sampled ESP - very slight dispersion
 C Weathered granite - water entered

Observation Notes**Site Notes**

Greenhills Road South EC=74ms/m

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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	5.21B									
0.16 - 0.26	5.28B									
0.3 - 0.5	6.3B	10B	2.12A	4.39	0.06	1.4			7.97D	
	7.3H									
0.3 - 0.5	6.3B	10B	2.12A	4.39	0.06	1.4			7.97D	
	7.3H									
0.41 - 0.51	6.13B									

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								
0.3 - 0.5								
0.3 - 0.5								
0.41 - 0.51								

Laboratory Analyses Completed for this profile

15_NR_CMV 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
 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
 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)