

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0436 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

**Desc. By:** Heather Percy  
**Date Desc.:** 08/09/92  
**Map Ref.:**  
**Northing/Long.:** 6283870 AMG zone: 50  
**Easting/Lat.:** 560370 Datum: AGD84  
**Locality:**  
**Elevation:** 319 metres  
**Rainfall:** No Data  
**Runoff:** No Data  
**Drainage:** Well drained

**Geology**

**ExposureType:** Auger boring  
**Geol. Ref.:** No Data  
**Conf. Sub. is Parent. Mat.:** No Data  
**Substrate Material:** No Data

**Land Form**

**Rel/Slope Class:** Undulating low hills 30-90m 3-10% **Pattern Type:** Low hills

**Morph. Type:** Upper-slope  
**Elem. Type:** Hillslope  
**Slope:** 4 %  
**Relief:** 60 metres  
**Slope Category:** No Data  
**Aspect:** 90 degrees

**Surface Soil Condition** Cracking, Hardsetting

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

**Soil Classification**

**Australian Soil Classification:** N/A  
**Mapping Unit:** N/A  
**Principal Profile Form:** Dy3.11  
**ASC Confidence:** Confidence level not specified  
**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, rounded, ; 2-10%, , subrounded,

**Profile**

A1	0 - 0.1 m	Dark grey (10YR4/1-Moist); , 0-0% ; Clayey sand; Weak grade of structure; Sandy (grains prominent)
		fabric; Moist; Very weak consistence; 20-50%, medium gravelly, 6-20mm, rounded, , coarse fragments;
		Field pH 5.5 (Raupach); Abundant, fine (1-2mm) roots; Abrupt change to -
B21t	0.1 - 0.4 m	Reddish yellow (7.5YR6/6-Moist); Mottles, 2.5YR48, 10-20% , 5-15mm, Distinct; Mottles, 10YR68, 10-
		20% , 5-15mm, Distinct; Medium clay; Strong grade of structure; Smooth-ped fabric;
		Moderately moist;
		Firm consistence; Field pH 5.5 (Raupach); Many, fine (1-2mm) roots;
B3	0.4 - 0.9 m	Brownish yellow (10YR6/7-Moist); Mottles, 2.5YR48, 20-50% , 15-30mm, Prominent;
		Light medium clay;
		Strong grade of structure; Smooth-ped fabric; Dry; Firm consistence; Field pH 6
		(Raupach); Few, fine
		(1-2mm) roots;
C	0.9 - 1.15 m	Pale yellow (2.5Y8/3-Moist); Mottles, 2.5YR48, 20-50% , 5-15mm, Prominent; Light clay;
		Moderate grade
		of structure; Smooth-ped fabric; Dry; Weak consistence; Field pH 6 (Raupach);

**Morphological Notes**

C Kaolinitic clay

**Observation Notes**

**Site Notes**

Jam Hills Road

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Cations	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m		Mg K	Cmol (+)/kg				%

0 - 0.11	4.51B								
0.1 - 0.4		1.06H	2.63	0.02	0.35	0.4J		4.06D	
0.1 - 0.4		1.06H	2.63	0.02	0.35	0.4J		4.06D	
0.16 - 0.26	3.94B								
0.41 - 0.51	4.61B								

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3				%	
0 - 0.11												
0.1 - 0.4												
0.1 - 0.4												
0.16 - 0.26												
0.41 - 0.51												

#### **Laboratory Analyses Completed for this profile**

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