

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0775 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

**Desc. By:** Jaki Hogstrom  
**Date Desc.:** 10/05/93  
**Map Ref.:**  
**Northing/Long.:** 6308100 AMG zone: 50  
**Easting/Lat.:** 464920 Datum: AGD84  
**Locality:**  
**Elevation:** 298 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 rises 9-30m 3-10%  
**Morph. Type:** Mid-slope  
**Elem. Type:** Hillslope  
**Slope:** 4 %  
**Pattern Type:** Rises  
**Relief:** 10 metres  
**Slope Category:** No Data  
**Aspect:** 45 degrees

**Surface Soil Condition** Loose

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

**Soil Classification**

**Australian Soil Classification:** N/A  
**Mapping Unit:** N/A  
**Principal Profile Form:** Gn1.42  
**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** 10-20%, medium gravelly, 6-20mm, subrounded, ; 2-10%, , subangular,  
 Ferricrete

**Profile**

**A1** 0 - 0.1 m Dark brown (7.5YR3/2-Moist); , 0-0% ; Sandy loam; Single grain grade of structure; Dry;  
 Loose  
 consistence; 20-50%, coarse fragments; Strongly water repellent, "Field pH 5.5  
 (Raupach); Abundant,  
 fine (1-2mm) roots; Abrupt change to -  
**B1** 0.1 - 0.35 m Strong brown (7.5YR5/6-Moist); , 0-0% ; Sandy loam; Single grain grade of structure; Dry;  
 Very weak  
 consistence; 50-90%, coarse fragments; Field pH 6 (Raupach); Many, fine (1-2mm) roots;  
 Gradual  
 change to -  
**B21** 0.35 - 0.6 m Strong brown (7.5YR4/6-Moist); , 0-0% ; Sandy clay loam; Single grain grade of structure;  
 Moderately  
 moist; Very weak consistence; 50-90%, coarse fragments; Field pH 6.5 (Raupach);  
 Common, fine (1-  
 2mm) roots;  
**B22** 0.6 - 0.75 m Strong brown (7.5YR4/6-Moist); , 0-0% ; Clay loam, sandy; Single grain grade of  
 structure; Moderately  
 moist; Very weak consistence; 50-90%, coarse fragments; Field pH 7 (Raupach); Few,  
 fine (1-2mm)  
 roots;

**Morphological Notes**

**Observation Notes**

**Site Notes**

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**Laboratory Test Results:**

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

0 - 0.1	5B								
0.15 - 0.25	5.5B								
0.35 - 0.6	5.9B	2B	2.51A	1.23	0.05	0.08			3.87D
	6.7H								
0.35 - 0.6	5.9B	2B	2.51A	1.23	0.05	0.08			3.87D
	6.7H								
0.35 - 0.6	5.9B	2B	2.51A	1.23	0.05	0.08			3.87D
	6.7H								
0.4 - 0.5	5.6B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1											
0.15 - 0.25											
0.35 - 0.6									84I		2
14											
0.35 - 0.6									84I		2
14											
0.35 - 0.6									84I		2
14											
0.4 - 0.5											

#### Laboratory Analyses Completed for this profile

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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
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)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded