

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0225 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b> Heather Percy	<b>Locality:</b>
<b>Date Desc.:</b> 26/05/92	<b>Elevation:</b> 287 metres
<b>Map Ref.:</b>	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6270870 AMG zone: 50	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 514930 Datum: AGD84	<b>Drainage:</b> Imperfectly drained

#### Geology

<b>ExposureType:</b> Auger boring	<b>Conf. Sub. is Parent. Mat.:</b> No Data
<b>Geol. Ref.:</b> No Data	<b>Substrate Material:</b> No Data

#### Land Form

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

<b>Morph. Type:</b> Upper-slope	<b>Relief:</b> 40 metres
<b>Elem. Type:</b> Hillslope	<b>Slope Category:</b> No Data
<b>Slope:</b> 4 %	<b>Aspect:</b> 0 degrees

#### Surface Soil Condition Firm

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

#### Soil Classification

<b>Australian Soil Classification:</b> N/A	<b>Mapping Unit:</b> N/A
<b>ASC Confidence:</b> Confidence level not specified	<b>Principal Profile Form:</b> Dy5.21
	<b>Great Soil Group:</b> 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 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Wet;
		Loose consistence; Field pH 6 (Raupach); Abundant, fine (1-2mm) roots; Abrupt, Wavy change to -
A21	0.05 - 0.25 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Wet; Loose
		consistence; Field pH 6 (Raupach); Many, fine (1-2mm) roots;
A22	0.25 - 0.35 m	Brownish yellow (10YR6/5-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure; Wet;
		Loose consistence; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Abrupt change to -
B21	0.35 - 0.6 m	Light brownish grey (10YR6/2-Moist); Mottles, 10YR68, 20-50% , 5-15mm, Distinct;
		Medium clay;
		Strong grade of structure; Smooth-ped fabric; Moderately moist; Weak consistence; Field pH 5.5
		(Raupach); Common, fine (1-2mm) roots; Clear change to -
B22	0.6 - 0.9 m	Light brownish grey (2.5Y6/3-Moist); Mottles, 10YR68, 20-50% , 5-15mm, Distinct;
		Mottles, 2.5YR47;
		Medium clay; Moderate grade of structure; Smooth-ped fabric; Moderately moist; Firm consistence;
		Common (10 - 20 %), Ferruginous, Fine (0 - 2 mm), Nodules; Field pH 6 (Raupach);
		Clear change to -
B23	0.9 - 1 m	Light brownish grey (2.5Y6/3-Moist); Mottles, 2.5YR47, 20-50% , 5-15mm, Prominent;
		Medium clay;
		Strong grade of structure; Smooth-ped fabric; Dry; Firm consistence; Field pH 4.5 (Raupach);

#### Morphological Notes

A22	Water perched on top of clay (L4)
B21	Sampled for pH 1:5 + ESP
B22	Pisolytes

## 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	5.25B									
0.16 - 0.26	4.84B									
0.35 - 0.6	4.7B	5B	0.23H	2.68	0.08	0.34	0.07J		3.33D	
	5.6H									
0.35 - 0.6	4.7B	5B	0.23H	2.68	0.08	0.34	0.07J		3.33D	
	5.6H									
0.41 - 0.51	4.76B									

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								
0.35 - 0.6								50I 5.5
	44.5							
0.35 - 0.6								50I 5.5
	44.5							
0.41 - 0.51								

## Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	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)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded