

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0223 **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> 301 metres
<b>Map Ref.:</b>	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6269250 AMG zone: 50	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 518580 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> Mid-slope	<b>Relief:</b> 55 metres
<b>Elem. Type:</b> Hillslope	<b>Slope Category:</b> No Data
<b>Slope:</b> 4 %	<b>Aspect:</b> 0 degrees

**Surface Soil Condition** Hardsetting, Hardsetting

**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> Dy3.41
	<b>Great Soil Group:</b> N/A

**Site** Extensive clearing, for example poisoning, ringbarking

**Vegetation:**

**Surface Coarse** No surface coarse fragments; No surface coarse fragments

**Profile**

A11 0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); , 0-0% ; Sandy clay loam; Single grain grade of structure; Moist;
Smooth change	Very weak consistence; Field pH 6 (Raupach); Abundant, coarse (>5mm) roots; Abrupt, to -
A12 0.1 - 0.15 m	Brown (7.5YR4/3-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Wet;
Loose consistence;	10-20%, medium gravelly, 6-20mm, subangular, Granite, coarse fragments; Field pH 6 (Raupach);
	Many, fine (1-2mm) roots; Abrupt change to -
A2e 0.15 - 0.4 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Coarse sand; Single grain grade of structure;
Wet; Loose	consistence; 50-90%, medium gravelly, 6-20mm, subangular, Granite, coarse fragments;
Field pH 6	(Raupach); Many, fine (1-2mm) roots; Abrupt change to -
B21 0.4 - 0.6 m	Brown (10YR5/3-Moist); Mottles, 7.5YR56, 20-50% , 5-15mm, Distinct; Sandy light clay;
Moderate grade	of structure; Rough-ped fabric; Moderately moist; Firm consistence; 20-50%, fine
gravelly, 2-6mm,	subangular, Granite, coarse fragments; Field pH 5.5 (Raupach); Many, fine (1-2mm)
roots; Clear	change to -
B22 0.6 - 0.7 m	Brown (10YR5/3-Moist); Mottles, 7.5YR56, 10-20% , 0-5mm, Distinct; Mottles, 2.5YR46,
20-50% , 5-	15mm, Prominent; Medium heavy clay; Moderate grade of structure; Smooth-ped fabric;
Dry; Very firm	consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 4.5
(Raupach);	Common, fine (1-2mm) roots; Clear change to -
B23 0.7 - 0.8 m	Greyish brown (10YR5/2-Moist); Mottles, 2.5YR47, 20-50% , 15-30mm, Distinct; Medium
clay; Moderate	grade of structure; Smooth-ped fabric; Dry; Very firm consistence; Few (2 - 10 %),
Ferruginous,	Medium (2 -6 mm), Nodules; Field pH 5 (Raupach); Common, very fine (0-1mm) roots;

**Morphological Notes**

A2e	Gravelly. + few coarse granite rock fragments
B21	Sampled for pH 1:5 and ESP
B23	Stopped by rock - probably floater

**Observation Notes****Site Notes**

Water perched on top of clay

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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	5.18B									
0.16 - 0.26	5.59B									
0.31 - 0.41	5.42B									
0.4 - 0.6	4.9B	42B	1.4H	5.03	0.14	0.93	0.14J		7.5D	
	5.4H									
0.4 - 0.6	4.9B	42B	1.4H	5.03	0.14	0.93	0.14J		7.5D	
	5.4H									

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.11											
0.16 - 0.26											
0.31 - 0.41											
0.4 - 0.6									68.5I		8
23.5											
0.4 - 0.6									68.5I		8
23.5											

**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