

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0058 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

<b>Desc. By:</b> Heather Percy	<b>Locality:</b>
<b>Date Desc.:</b> 18/10/91	<b>Elevation:</b> 310 metres
<b>Map Ref.:</b>	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6256600 AMG zone: 50	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 566240 Datum: AGD84	<b>Drainage:</b> Moderately well 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:** Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

<b>Morph. Type:</b> Lower-slope	<b>Relief:</b> 20 metres
<b>Elem. Type:</b> Footslope	<b>Slope Category:</b> No Data
<b>Slope:</b> 2 %	<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> Dy3.42
	<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**

<p>A1 0 - 0.12 m Sandy (grains Ferruginous, mm), Nodules; repellent; Field pH 6</p>	<p>Very dark brown (10YR2/2-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; prominent) fabric; Dry; 20-50%, Ironstone, coarse fragments; Common (10 - 20 %), Coarse (6 - 20 mm), Nodules; Common (10 - 20 %), Ferruginous, Very coarse (20 - 60 mm), Nodules; Water repellent; Field pH 6 (Raupach); Abundant, fine (1-2mm) roots;</p>
<p>A21e 0.12 - 0.5 m prominent) fabric; (6 - 20 mm), many (50 - 100 (Raupach); Many,</p>	<p>Pale brown (10YR6/3-Moist); , 0-0% ; Single grain grade of structure; Sandy (grains Dry; 50-90%, Ironstone, coarse fragments; Very many (50 - 100 %), Ferruginous, Coarse Nodules; Very many (50 - 100 %), Ferruginous, Very coarse (20 - 60 mm), Nodules; Very %, Ferruginous, Extremely coarse (&gt; 60 mm), Nodules; Water repellent; Field pH 6 fine (1-2mm) roots; Gradual change to -</p>
<p>A22e 0.5 - 0.65 m (grains %), mm), Nodules; Common, fine (1-</p>	<p>Pale brown (10YR6/3-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy prominent) fabric; Moderately moist; 50-90%, Ironstone, coarse fragments; Many (20 - 50 %), Ferruginous, Medium (2 -6 mm), Nodules; Many (20 - 50 %), Ferruginous, Fine (0 - 2 Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 7 (Raupach); 2mm) roots; Clear change to -</p>
<p>B21 0.65 - 0.9 m medium clay; coarse fragments; Ferruginous, Very change to -</p>	<p>Pale brown (10YR6/3-Moist); Mottles, 10YR68, 20-50% , 5-15mm, Distinct; Sandy light Moderate grade of structure; Rough-ped fabric; Moderately moist; 20-50%, Ironstone, Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Many (20 - 50 %), coarse (20 - 60 mm), Nodules; Field pH 7.5 (Raupach); Few, fine (1-2mm) roots; Gradual</p>

B22 0.9 - 1.05 m Light grey (10YR7/1-Moist); Mottles, 10YR68, 10-20% , 5-15mm, Distinct; Medium clay; Moderate  
grade of structure; Rough-ped fabric; Moderately moist; 20-50%, Ironstone, coarse fragments; Common  
(10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 7 (Raupach);

### Morphological Notes

A1 F,M,C IS  
A21e F,M,C A QZ IS R +CS  
A22e F,M IR R,S  
B21 M IS SAMPLED  
B22 M IS

### Observation Notes

#### Site Notes

Surface water repellence due to clovers

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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				%
0.65 - 0.9	6.1B 7.2H	11B	0.8A	3.7	0.07	0.94			5.51D	
0.65 - 0.9	6.1B 7.2H	11B	0.8A	3.7	0.07	0.94			5.51D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0.65 - 0.9								65I 5.5
29.5								
0.65 - 0.9								65I 5.5
29.5								

### Laboratory Analyses Completed for this profile

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