

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 1766 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b> Heather Percy	<b>Locality:</b>
<b>Date Desc.:</b> 22/06/94	<b>Elevation:</b> 300 metres
<b>Map Ref.:</b>	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6325960 AMG zone: 50	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 478070 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> Lower-slope	<b>Relief:</b> 30 metres
<b>Elem. Type:</b> Footslope	<b>Slope Category:</b> No Data
<b>Slope:</b> 4 %	<b>Aspect:</b> 270 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> Db4.22
	<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

A11 0 - 0.1 m Field pH 6	Dark brown (7.5YR3/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Wet; (Raupach); Abrupt change to -
A12 0.1 - 0.2 m Rough-ped	Dark reddish brown (5YR3/3-Moist); , 0-0% ; Clay loam, sandy; Weak grade of structure; fabric; Wet; Field pH 6 (Raupach); Clear change to -
A2 0.2 - 0.3 m structure; Rough-ped 6.5 (Raupach);	Reddish brown (5YR4/4-Moist); , 0-0% ; Coarse sandy clay loam; Weak grade of fabric; Wet; 20-50%, medium gravelly, 6-20mm, subangular, , coarse fragments; Field pH Abrupt change to -
B2 0.3 - 0.5 m medium clay; 20mm, subangular, ,	Strong brown (7.5YR4/6-Moist); Mottles, 2.5YR46, 2-10% , 0-5mm, Distinct; Light Moderate grade of structure; Rough-ped fabric; Moist; 20-50%, medium gravelly, 6-coarse fragments; Field pH 7 (Raupach); Clear change to -
B3 0.5 - 0.9 m Massive coarse (Raupach);	Strong brown (7.5YR4/6-Moist); Mottles, 2.5YR46, 10-20% , 5-15mm, Distinct; Clay loam; grade of structure; Moderately moist; 20-50%, medium gravelly, 6-20mm, subangular, , fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 7

#### Morphological Notes

B3 Colluvium derived from weathered ferricrete.

#### Observation Notes

#### Site Notes

Site along English Road reserve 10m upslope of wet valley floor containing Salic Hydrosols.

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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 - 0.1	4.7B									
0.1 - 0.2	4.9B									
0.2 - 0.3			2K	2.9	0.09	0.31			5.3D	
0.3 - 0.5	5.7B	4B	2A	4.5	0.07	0.6			7.17D	
	6.8H									
0.3 - 0.5	5.7B	4B	2A	4.5	0.07	0.6			7.17D	
	6.8H									
0.4 - 0.5	5.8B									

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											
0.1 - 0.2											
0.2 - 0.3											
0.3 - 0.5									47.5I		6.5
46											
0.3 - 0.5									47.5I		6.5
46											
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_AL	Aluminium Cation - meq per 100g of soil - Not recorded
15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - 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_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded