

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 1000 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b> Heather Percy	<b>Locality:</b>
<b>Date Desc.:</b> 08/07/93	<b>Elevation:</b> 288 metres
<b>Map Ref.:</b>	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6320620 AMG zone: 50	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 519850 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> Mid-slope	<b>Relief:</b> 20 metres
<b>Elem. Type:</b> Footslope	<b>Slope Category:</b> No Data
<b>Slope:</b> 1 %	<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> Dy2.52
	<b>Great Soil Group:</b> N/A

**Site** Complete clearing. Pasture, native or improved, cultivated at some stage

#### Vegetation:

**Surface Coarse** 10-20%, medium gravelly, 6-20mm, rounded, ; 2-10%, , subangular, Granite

#### Profile

A1 0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moist;
Many, very fine (0-	20-50%, fine gravelly, 2-6mm, rounded, , coarse fragments; Field pH 5.5 (Raupach);
	1mm) roots; Abrupt change to -
B1 0.1 - 0.15 m	Yellowish brown (10YR5/4-Moist); , 0-0% ; Sandy clay loam; Weak grade of structure;
Rough-ped fabric;	Moist; 50-90%, fine gravelly, 2-6mm, subrounded, , coarse fragments; Few (2 - 10 %),
Ferruginous,	Medium (2 -6 mm), Nodules; Field pH 6 (Raupach); Common, very fine (0-1mm) roots;
Clear change to -	
B2t 0.15 - 0.45 m	Brownish yellow (10YR6/6-Moist); , 0-0% ; Clay loam; Weak grade of structure; Rough-
ped fabric; Moist;	50-90%, fine gravelly, 2-6mm, subrounded, , coarse fragments; Many (20 - 50 %),
Ferruginous, Medium	(2 -6 mm), Nodules; Field pH 6.5 (Raupach); Common, very fine (0-1mm) roots; Clear
change to -	
C 0.45 - 0.55 m	Yellowish brown (10YR5/8-Moist); ; Sandy clay loam; Massive grade of structure; Moist;
50-90%, fine	gravelly, 2-6mm, subrounded, , coarse fragments; Many (20 - 50 %), Ferruginous,
Medium (2 -6 mm),	Nodules; Field pH 7 (Raupach); Few, very fine (0-1mm) roots;

#### Morphological Notes

B1	Few medium subangular quartz.
B2t	pH 15-25CM = 6.5; pH 35-45cm = 7
C	Very hard.

#### Observation Notes

#### Site Notes

Site on Nobles Road.

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**Observation** 1

**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	5B									
0.15 - 0.35	5.5B 6.3H	7B	1.98H	2.59	0.44	0.3	0.02J		5.31D	
0.15 - 0.35	5.5B 6.3H	7B	1.98H	2.59	0.44	0.3	0.02J		5.31D	
0.15 - 0.25	5.4B									
0.35 - 0.45	5.9B									

Depth	CaCO <sub>3</sub>	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m <sup>3</sup>	GV CS FS Silt
0 - 0.1								
0.15 - 0.35								45I 7.5
0.15 - 0.35								45I 7.5
0.15 - 0.25								
0.35 - 0.45								

**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 (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) 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 (Mn <sup>2+</sup> ) 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
4B_AL_NR	Aluminium in 1:5 soil/0.01M calcium chloride extract - method 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