

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0442 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Heather Percy	<b>Locality:</b>	
<b>Date Desc.:</b>	09/09/92	<b>Elevation:</b>	348 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6283900 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	552210 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:** Undulating low hills 30-90m 3-10% **Pattern Type:** Low hills

<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	60 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	4 %	<b>Aspect:</b>	90 degrees

#### Surface Soil Condition Firm, Hardsetting

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

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
N/A		<b>Principal Profile Form:</b>	Dr2.23
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A
Confidence level not specified			

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

#### Vegetation:

**Surface Coarse** No surface coarse fragments; 2-10%, , subrounded, Gabbro

#### Profile

<b>A1</b>	0 - 0.08 m	Dark reddish brown (2.5YR3/3-Moist); , 0-0% ; Clay loam, sandy; Strong grade of structure, 5-10 mm,
		Granular; Moist; Weak consistence; Field pH 6 (Raupach); Abundant, fine (1-2mm) roots;
		Abrupt change to -
<b>A2</b>	0.08 - 0.4 m	Dark red (2.5YR3/6-Moist); , 0-0% ; Clay loam, sandy; Strong grade of structure; Rough-ped fabric; Wet;
		Firm consistence; 10-20%, medium gravelly, 6-20mm, rounded, , coarse fragments; Field pH 7
		(Raupach); Many, fine (1-2mm) roots; Abrupt change to -
<b>B21</b>	0.4 - 0.5 m	Dark red (2.5YR3/6-Moist); Mottles, 7.5YR68, 2-10% , 15-30mm, Distinct; Medium clay;
		Strong grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Field pH 8 (Raupach);
		Common, fine (1-2mm) roots; Abrupt change to -
<b>B22</b>	0.5 - 0.75 m	Dark red (2.5YR3/6-Moist); Mottles, 7.5YR68, 2-10% , 5-15mm, Distinct; Substrate
		influence, 10YR82,
		10-20% , 15-30mm, Distinct; Medium clay; Strong grade of structure; Rough-ped fabric;
		Moderately moist; Very firm consistence; 20-50%, coarse gravelly, 20-60mm, subrounded, Gabbro,
		coarse fragments; Field pH 8 (Raupach); Few, very fine (0-1mm) roots; Gradual change to -
<b>C</b>	0.75 - 1.3 m	Reddish yellow (7.5YR6/8-Moist); Mottles, 2.5YR48, 10-20% , 15-30mm, Distinct; Sandy
		light clay;
		Massive grade of structure; Moderately moist; Firm consistence; Field pH 8.5 (Raupach);
		Few, very fine (0-1mm) roots;

#### Morphological Notes

#### Observation Notes

#### Site Notes

Filmer Road

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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 - 0.08	5.5B 6.3H	10B	8H	2.47	0.48	0.35	0.02J		11.3D	
0 - 0.08	5.5B 6.3H	10B	8H	2.47	0.48	0.35	0.02J		11.3D	
0 - 0.11	5.59B									
0.08 - 0.4	6.3B 7.8H	4B	5.47A	3.93	0.16	0.71			10.27D	
0.08 - 0.4	6.3B 7.8H	4B	5.47A	3.93	0.16	0.71			10.27D	
0.08 - 0.4	6.3B 7.8H	4B	5.47A	3.93	0.16	0.71			10.27D	
0.16 - 0.26	5.99B									
0.4 - 0.5	7B 8.5H	6B	5.63E	7.4	0.1	1.82		16B	14.95D	11.38
0.4 - 0.5	7B 8.5H	6B	5.63E	7.4	0.1	1.82		16B	14.95D	11.38
0.4 - 0.5	7B 8.5H	6B	5.63E	7.4	0.1	1.82		16B	14.95D	11.38
0.4 - 0.5	7B 8.5H	6B	5.63E	7.4	0.1	1.82		16B	14.95D	11.38
0.41 - 0.51	6.74B									

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 - 0.08								
0 - 0.08								
0 - 0.11								
0.08 - 0.4								
0.08 - 0.4								
0.08 - 0.4								
0.16 - 0.26								
0.4 - 0.5	<2C							
0.4 - 0.5	<2C							
0.4 - 0.5	<2C							
0.4 - 0.5	<2C							
0.41 - 0.51								

**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_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 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 (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts

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15A1_NA for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15C1_CA pretreatment for	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - alcoholic 1M ammonium chloride at pH 8.5, soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA salts	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
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using 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
19B_NR	Calcium Carbonate (CaCO <sub>3</sub> ) - Not recorded
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)