

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0363 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Jaki Hogstrom	<b>Locality:</b>	
<b>Date Desc.:</b>	30/07/92	<b>Elevation:</b>	360 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6254010 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	537000 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>	Crest	<b>Relief:</b>	50 metres
<b>Elem. Type:</b>	Summit surface	<b>Slope Category:</b>	No Data
<b>Slope:</b>	3 %	<b>Aspect:</b>	225 degrees

#### Surface Soil Condition Hardsetting, 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>	Dy3.11
<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** Ironstone 50-90%, medium gravelly, 6-20mm, subrounded, Ironstone; 20-50%, , angular, Ironstone

#### Profile

A1	0 - 0.05 m	Brown (7.5YR4/2-Moist); , 0-0% ; Sandy clay loam; Moderately moist; 10-20%, fine gravelly, 2-6mm, rounded, , coarse fragments; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 6 (Raupach); Abundant, fine (1-2mm) roots; Abrupt, Wavy change to -
B21	0.05 - 0.15 m	Red (2.5YR4/6-Moist); Mechanical, 7.5YR42, 20-50% , 15-30mm, Distinct; Light medium clay; Strong grade of structure; Rough-ped fabric; Moderately moist; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 5.5 (Raupach); Many, fine (1-2mm) roots; Abrupt change to -
B22	0.15 - 0.55 m	Red (2.5YR5/8-Moist); Mottles, 10YR67, 10-20% , 5-15mm, Distinct; Mottles, 10R36, 10-20% , 5-15mm, Distinct; Medium clay; Strong grade of structure; Smooth-ped fabric; Moderately moist; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 4.5 (Raupach); Common, fine (1-2mm) roots; Clear change to -
C	0.55 - 1 m	Light grey (10YR7/1-Moist); Mottles, 10R46, 20-50% , 15-30mm, Prominent; Medium clay; Strong grade of structure; Smooth-ped fabric; Dry; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 4.5 (Raupach); Few, fine (1-2mm) roots;

#### Morphological Notes

A1	Black ironstone gravel
B21	Sampled for ESP between 5-25cm
C	Kaolinitic mottled zone

#### Observation Notes

#### Site Notes

Next to gravel pit (small) on Old Kojonup-Broomehill Rd

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0363  
**Agency Name:** Agriculture Western Australia

**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 - 0.11	5.14B									
0.05 - 0.25	4.5B	14B	1.14H	3.44	0.19	0.7	1.08J		5.47D	
	5.3H		1.14H	3.44	0.19	0.7	1.08J		5.47D	
	4.5B									
	5.3H									
0.05 - 0.25	4.5B	14B	1.14H	3.44	0.19	0.7	1.08J		5.47D	
	5.3H		1.14H	3.44	0.19	0.7	1.08J		5.47D	
	4.5B									
	5.3H									
0.05 - 0.25	4.5B	14B	1.14H	3.44	0.19	0.7	1.08J		5.47D	
	5.3H		1.14H	3.44	0.19	0.7	1.08J		5.47D	
	4.5B									
	5.3H									
0.05 - 0.25	4.5B	14B	1.14H	3.44	0.19	0.7	1.08J		5.47D	
	5.3H		1.14H	3.44	0.19	0.7	1.08J		5.47D	
	4.5B									
	5.3H									
0.16 - 0.26	4.32B									
0.41 - 0.51	4.03B									

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 - 0.11								
0.05 - 0.25								
0.05 - 0.25								
0.05 - 0.25								
0.05 - 0.25								
0.16 - 0.26								
0.41 - 0.51								

**Laboratory Analyses Completed for this profile**

15_NR_CMR	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
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
P10_gt2m	> 2mm particle size analysis, (method not recorded)

<b>Project Name:</b>	<b>Katanning land resources survey</b>	<b>Observation</b>	<b>1</b>
<b>Project Code:</b>	<b>KLC</b>	<b>Site ID:</b>	<b>0363</b>
<b>Agency Name:</b>	<b>Agriculture Western Australia</b>		