

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0556 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Jaki Hogstrom	<b>Locality:</b>	
<b>Date Desc.:</b>	16/11/92	<b>Elevation:</b>	244 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6286910 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	485210 Datum: AGD84	<b>Drainage:</b>	Moderately well drained

#### Geology

<b>ExposureType:</b>	Soil pit	<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>	40 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	4 %	<b>Aspect:</b>	45 degrees

#### Surface Soil Condition Firm

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

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Bleached-Ferric Mesotrophic Yellow Chromosol	<b>Principal Profile Form:</b>	Dy4.42
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	N/A

All necessary analytical data are available.

**Site** Complete clearing. Pasture, native or improved, but never cultivated

#### Vegetation:

**Surface Coarse** 20-50%, medium gravelly, 6-20mm, subangular, Ironstone; No surface coarse fragments

#### Profile

A1	0 - 0.1 m	Dark brown (10YR3/3-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moderately moist; Loose consistence; 20-50%, medium gravelly, 6-20mm, subangular, Ironstone, coarse fragments; Water repellent; Field pH 6 (Raupach); Abundant, very fine (0-1mm) roots; Abrupt, Smooth change to -
A21e	0.1 - 0.4 m	Pale yellow (2.5Y7/3-Moist); , 0-0% ; Sand; Single grain grade of structure; Dry; Loose consistence; 50-90%, medium gravelly, 6-20mm, subangular, Ironstone, coarse fragments; Field pH 7 (Raupach); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
A22	0.4 - 0.6 m	Yellow (10YR7/6-Moist); , 0-0% ; Sand; Single grain grade of structure; Dry; Loose consistence; 50-90%, fine gravelly, 2-6mm, subangular, Ironstone, coarse fragments; Field pH 6.5 (Raupach); Clear, Smooth change to -
B21	0.6 - 0.8 m	Brownish yellow (10YR6/8-Moist); , 0-0% ; Sandy clay loam; Weak grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Moist; Loose consistence; 50-90%, medium gravelly, 6-20mm, angular, Ironstone, coarse fragments; Field pH 7 (Raupach); Abrupt, Wavy change to -
C	0.8 - 1 m	Brownish yellow (10YR6/8-Moist); Mottles, 7.5YR4/6, 20-50% , 15-30mm, Distinct; Sandy clay loam; Massive grade of structure; Dry; Firm consistence; Field pH 7 (Raupach);

#### Morphological Notes

C Cemented - ferricrete

#### Observation Notes

#### Site Notes

Completely cleared

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**Laboratory Test Results:**

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.1	5.1B 5.9H 5.7B 6.5H	6B 9B	9.24H	3.82	0.11	0.34	0.04J		13.51D	
0 - 0.1	5.1B 5.9H 5.7B 6.5H	6B 9B	9.24H	3.82	0.11	0.34	0.04J		13.51D	
0 - 0.1	5.1B 5.9H 5.7B 6.5H	6B 9B	9.24H	3.82	0.11	0.34	0.04J		13.51D	
0 - 0.11	5.39B									
0 - 0.1	5.1B 5.9H 5.7B 6.5H	6B 9B	9.24H	3.82	0.11	0.34	0.04J		13.51D	
0.1 - 0.4	5.4B 6.4H	1B	0.63H	0.12	0.03	<0.02	0.03J		0.79D	
0.1 - 0.4	5.4B 6.4H	1B	0.63H	0.12	0.03	<0.02	0.03J		0.79D	
0.16 - 0.26	5.33B									
0.4 - 0.6	6B 7H	1B	1.31A	0.76	0.08	0.05			2.2D	
0.4 - 0.6	6B 7H	1B	1.31A	0.76	0.08	0.05			2.2D	
0.41 - 0.51	5.72B									
0.6 - 0.8	5.9B 6.9H	2B	1.47A	1.59	0.11	0.1			3.27D	
0.6 - 0.8	5.9B 6.9H	2B	1.47A	1.59	0.11	0.1			3.27D	
0.8 - 1	6.1B 6.7H	3B	1.19A	1.61	0.11	0.11			3.02D	
0.8 - 1	6.1B 6.7H	3B	1.19A	1.61	0.11	0.11			3.02D	

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV CS	Size FS	Analysis Silt
0 - 0.1 2.5		2.15D		240B	0.131E					2.1
0 - 0.1 2.5		3.37D 2.15D		320B 240B	0.171E 0.131E					2.1
0 - 0.1 2.5		3.37D 2.15D		320B 240B	0.171E 0.131E					2.1
0 - 0.11 0 - 0.1 2.5		3.37D 2.15D		320B 240B	0.171E 0.131E					2.1
0.1 - 0.4 2.1		3.37D 0.2D		320B 36B	0.171E 0.013E					1.1
0.1 - 0.4 2.1		0.2D		36B	0.013E					1.1

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0.16 - 0.26				
0.4 - 0.6	0.21D	41B	0.016E	1.8
7.9				
0.4 - 0.6	0.21D	41B	0.016E	1.8
7.9				
0.41 - 0.51				
0.6 - 0.8	0.26D	49B	0.018E	5.5
22.2				
0.6 - 0.8	0.26D	49B	0.018E	5.5
22.2				
0.8 - 1	0.16D	40B	0.011E	5.3
19.4				
0.8 - 1	0.16D	40B	0.011E	5.3
19.4				

#### **Laboratory Analyses Completed for this profile**

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	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
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) 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 (Mn2+) 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	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
18A1_NR	Bicarbonate-extractable potassium (not recorded)
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
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9B_NR	Bicarbonate-extractable phosphorus (not recorded)
9H1	Anion storage capacity
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_20_75	20 to 75u particle size analysis, (method not recorded)
P10_75_106	75 to 106u particle size analysis, (method not recorded)
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10106_150	106 to 150u particle size analysis, (method not recorded)
P10150_180	150 to 180u particle size analysis, (method not recorded)
P10180_300	180 to 300u particle size analysis, (method not recorded)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)