

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0786 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Jaki Hogstrom	<b>Locality:</b>	
<b>Date Desc.:</b>	11/05/93	<b>Elevation:</b>	298 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6305670 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	475350 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

<b>Rel/Slope Class:</b>	Undulating plains <9m 3-10%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	3 metres
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	No Data
<b>Slope:</b>	4 %	<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>	Dy3.61
<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; No surface coarse fragments

#### Profile

<b>A1</b>	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Dry; Loose
Many, very fine		consistence; 10-20%, coarse fragments; Strongly water repellent, "Field pH 5 (Raupach); (0-1mm) roots; Abrupt change to -
<b>A2</b>	0.05 - 0.15 m	Dark brown (10YR3/3-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Dry; Very weak
very fine (0-		consistence; 10-20%, coarse fragments; Water repellent; Field pH 5.5 (Raupach); Many, 1mm) roots; Clear change to -
<b>B1</b>	0.15 - 0.3 m	Yellowish brown (10YR5/4-Moist); , 0-0% ; Clay loam, sandy; Massive grade of structure; Dry; Firm
1mm) roots;		consistence; 10-20%, coarse fragments; Field pH 5.5 (Raupach); Common, very fine (0- Clear change to -
<b>B2</b>	0.3 - 0.5 m	Yellowish brown (10YR5/6-Moist); Mottles, 10R46, 10-20% , 5-15mm, Distinct; Light clay; Weak grade of
very fine (0-		structure; Rough-ped fabric; Dry; Very firm consistence; Field pH 6 (Raupach); Common, 1mm) roots;

#### Morphological Notes

B2 Very slight dispersion

#### Observation Notes

#### Site Notes

What is the landform element/pattern? Stream 20m away. Site on big 'hummock' between two drainage lines. Stream salinity was 1160 mS/m

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#### Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations	Exchangeable	CEC	ECEC	ESP
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m	dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity	%
0 - 0.1	4.2B						
	4.2B						
0 - 0.1	4.2B						
	4.2B						
0.15 - 0.25	4.2B						
0.3 - 0.5	4.9B	6B	0.93H	2.57	0.03	0.28	0.08J
	5.7H						
0.3 - 0.5	4.9B	6B	0.93H	2.57	0.03	0.28	0.08J
	5.7H						
0.4 - 0.5	4.9B						

Depth	CaCO3	Organic C Clay	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 - 0.1											
0.15 - 0.25											
0.3 - 0.5									48.5l		17
0.3 - 0.5									48.5l		17
0.4 - 0.5											

#### 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
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
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