

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0557 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

<b>Desc. By:</b> Heather Percy	<b>Locality:</b>
<b>Date Desc.:</b> 19/11/92	<b>Elevation:</b> 265 metres
<b>Map Ref.:</b>	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6267200 AMG zone: 50	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 482380 Datum: AGD84	<b>Drainage:</b> Imperfectly 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> Upper-slope	<b>Relief:</b> 30 metres
<b>Elem. Type:</b> Hillslope	<b>Slope Category:</b> No Data
<b>Slope:</b> 3 %	<b>Aspect:</b> 180 degrees

**Surface Soil Condition** Firm

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

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Eutrophic Subnatic Brown Sodosol	<b>Principal Profile Form:</b> Db3.21
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> N/A
All necessary analytical data are available.	

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

**Vegetation:**

**Surface Coarse** No surface coarse fragments; No surface coarse fragments

**Profile**

A11	0 - 0.07 m	Dark brown (7.5YR3/3-Moist); , 0-0% ; Sandy loam; Weak grade of structure, 10-20 mm, Subangular
		blocky; Sandy (grains prominent) fabric; Moist; Very weak consistence; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Abrupt, Smooth change to -
A12	0.07 - 0.25 m	Dark reddish brown (5YR3/4-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Dry; Weak
		consistence; 0-2%, fine gravelly, 2-6mm, rounded, , coarse fragments; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; Clear, Smooth change to -
A21	0.25 - 0.32 m	Yellowish brown (10YR5/6-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Dry; Weak
		consistence; 2-10%, medium gravelly, 6-20mm, subrounded, Dolerite, coarse fragments; 10-20%, coarse gravelly, 20-60mm, rounded, Dolerite, coarse fragments; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Abrupt, Smooth change to -
A22	0.32 - 0.5 m	Yellowish brown (10YR5/6-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Dry; Weak
		consistence; Field pH 7 (Raupach); Common, very fine (0-1mm) roots; Clear, Wavy change to -
B2t	0.5 - 0.7 m	Strong brown (7.5YR4/6-Moist); Mottles, 5YR44, 2-10% , 15-30mm, Faint; Medium clay; Strong grade of
		structure, 50-100 mm, Prismatic; Smooth-ped fabric; Dry; Strong consistence; Field pH 6.5 (Raupach); Common, fine (1-2mm) roots; Gradual, Smooth change to -
C	0.7 - 1.65 m	Yellowish red (5YR5/6-Moist); Mottles, 2.5YR56, 20-50% , 15-30mm, Distinct; Sandy clay loam; Massive
		grade of structure; Dry; Firm consistence; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots;

**Morphological Notes**

A12 Black gravel

A21 sampled L3 & L4 together  
 B2t Roots on outside of peds - prismatic peds break to 5, Blocky

# Observation Notes

## Site Notes

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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 - 0.07	5.7B 6.5H	23B	6.46H	1.61	1.26	0.22	0.02J		9.55D	
0 - 0.1	4.9B 5.6H	20B								
0 - 0.07	5.7B 6.5H	23B	6.46H	1.61	1.26	0.22	0.02J		9.55D	
0 - 0.1	4.9B 5.6H	20B								
0.07 - 0.25	4.5B 5.8H	2B	2.06H	0.66	0.27	0.07	0.42J		3.06D	
0.07 - 0.25	4.5B 5.8H	2B	2.06H	0.66	0.27	0.07	0.42J		3.06D	
0.25 - 0.5	5.3B 6.9H	2B	3.22H	1.74	0.11	0.23	0.03J		5.3D	
0.25 - 0.5	5.3B 6.9H	2B	3.22H	1.74	0.11	0.23	0.03J		5.3D	
0.5 - 0.7	4.4B 6.2H	5B	5.22H	12.39	0.09	2.09	0.34J		19.79D	
0.5 - 0.7	4.4B 6.2H	5B	5.22H	12.39	0.09	2.09	0.34J		19.79D	
0.7 - 1.65	4.2B 5.8H	6B	2.78H	7.48	0.02	3.11	2.61J		13.39D	
0.7 - 1.65	4.2B 5.8H	6B	2.78H	7.48	0.02	3.11	2.61J		13.39D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0 - 0.07 4.8		2.47D		520B	0.215E						7.2
0 - 0.1		2.1D		410B	0.183E						
0 - 0.07 4.8		2.47D		520B	0.215E						7.2
0 - 0.1		2.1D		410B	0.183E						
0.07 - 0.25 10.3		0.45D		140B	0.038E						6.8
0.07 - 0.25 10.3		0.45D		140B	0.038E						6.8
0.25 - 0.5 9.6		0.2D		140B	0.021E						11.5
0.25 - 0.5 9.6		0.2D		140B	0.021E						11.5
0.5 - 0.7 52.9		0.34D		100B	0.031E						8.9
0.5 - 0.7 52.9		0.34D		100B	0.031E						8.9
0.7 - 1.65 8.9		0.1D		330B	0.006E						9.3
0.7 - 1.65 8.9		0.1D		330B	0.006E						9.3

**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

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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
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)