

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0084 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 01/11/91	Elevation: 285 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6268510 AMG zone: 50	Runoff: No Data
Easting/Lat.: 577700 Datum: AGD84	Drainage: Well drained

Geology

ExposureType: Auger boring	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data	Substrate Material: No Data

Land Form

Rel/Slope Class: Undulating plains <9m 3-10%	Pattern Type: Alluvial plain
Morph. Type: Crest	Relief: 7 metres
Elem. Type: Lunette	Slope Category: No Data
Slope: 0 %	Aspect: 0 degrees

Surface Soil Condition Firm

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

Soil Classification

Australian Soil Classification: N/A	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: Dy5.83
	Great Soil Group: N/A

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

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Sandy roots; Abrupt
		change to -
A2e	0.1 - 0.45 m	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Loamy fine sand; Massive grade of structure; Sandy
		(grains prominent) fabric; Dry; Field pH 7.5 (Raupach); Few, fine (1-2mm) roots; Sharp, Wavy change to -
B2t	0.45 - 0.65 m	Light yellowish brown (10YR6/4-Moist); Mottles, 7.5YR56, 20-50% , 15-30mm, Distinct; Sandy clay loam;
		Massive grade of structure; Sandy (grains prominent) fabric; Dry; Field pH 7.5 (Raupach); Few, fine (1-2mm) roots; Clear change to -
C1k	0.65 - 0.8 m	Pale yellow (2.5Y7/4-Moist); , 0-0% ; Sandy loam; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Concretions; Soil matrix is
		Highly calcareous; Field pH 8.5 (Raupach); Clear change to -
C2k	0.8 - 1.2 m	Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Sandy
		(grains prominent) fabric; Dry; Common (10 - 20 %), Calcareous, Very coarse (20 - 60 mm), Concretions; Soil matrix is Very highly calcareous; Field pH 8.5 (Raupach); Clear change to -
C3	1.2 - 1.3 m	Light reddish brown (2.5YR6/3-Moist); Mottles, 7.5YR56, 20-50% , 5-15mm, Distinct; Clayey sand;
		Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Concretions; Field pH 8.5 (Raupach);

Morphological Notes

A1	+FS
A2e	1MM THIN FE PANS AT 18,30

B2t

SAMPLED. POSSIBLY DOMED

Observation Notes**Site Notes**

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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				%
0.45 - 0.65	6.9B	5B	2.05A	0.89	0.09	0.26			3.29D	
0.45 - 0.65	7.8H									
0.45 - 0.65	6.9B	5B	2.05A	0.89	0.09	0.26			3.29D	
	7.8H									

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m ³				%	
0.45 - 0.65										85.5l		2.5
12												
0.45 - 0.65										85.5l		2.5
12												

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
15A1_CEC	salts
15A1_K	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_MG	salts
for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA	salts
for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
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
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)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded