

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0249 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	04/06/92	Elevation:	250 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6269660 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	500000 Datum: AGD84	Drainage:	Moderately 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: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type:	Lower-slope	Relief:	25 metres
Elem. Type:	Footslope	Slope Category:	No Data
Slope:	3 %	Aspect:	90 degrees

Surface Soil Condition Soft

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mesotrophic Mottled-Subnatic Yellow Sodosol		Principal Profile Form:	Dg4.41
ASC Confidence:		Great Soil Group:	N/A

Analytical data are incomplete but reasonable confidence.

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

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

0 - 0.08 m structure; Loose 10%, medium (0-1mm) roots;	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Coarse sand; Single grain grade of consistence; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 2- gravelly, 6-20mm, rounded, , coarse fragments; Field pH 5.5 (Raupach); Many, very fine Abrupt, Wavy change to -
A1 0.08 - 0.25 m structure; Dry; Very	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy sand; Massive grade of weak consistence; Field pH 5.5 (Raupach); Many, fine (1-2mm) roots; Sharp change to -
A21e 0.25 - 0.4 m grain grade of fragments; Field pH	Pale yellow (2.5Y7/4-Moist); Mottles, 7.5YR58, 2-10% , 0-5mm, Distinct; Sand; Single structure; Moist; Loose consistence; 2-10%, fine gravelly, 2-6mm, rounded, , coarse 6 (Raupach); Common, medium (2-5mm) roots; Abrupt change to -
A22ec 0.4 - 0.5 m Loose (Raupach);	Yellow (10YR7/6-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moist; consistence; 10-20%, medium gravelly, 6-20mm, rounded, , coarse fragments; Field pH 6 Common, medium (2-5mm) roots; Abrupt change to -
B21t 0.5 - 0.7 m clay; Moderate Few, medium (2-	Very pale brown (10YR7/4-Moist); Mottles, 10YR58, 20-50% , 5-15mm, Faint; Sandy light grade of structure; Rough-ped fabric; Moist; Firm consistence; Field pH 6 (Raupach); 5mm) roots; Clear change to -
B22t 0.7 - 0.95 m medium clay; (Raupach); Few,	Reddish yellow (7.5YR6/8-Moist); Mottles, 7.5YR68, 20-50% , 5-15mm, Faint; Sandy Moderate grade of structure; Rough-ped fabric; Moist; Firm consistence; Field pH 6 medium (2-5mm) roots;

Morphological Notes

A21e Deposited by wind/water erosion
Mottles in top 5-10cm only

B21t Sampled for ESP, CEC %
 B22t Sampled for % clay

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 - 0.11	4.44B									
0.16 - 0.26	4.5B									
0.41 - 0.51	5.49B									
0.5 - 0.7	5.8B	4B	0.98A	2.04	0.03	0.21			3.26D	
	6.8H									
0.5 - 0.7	5.8B	4B	0.98A	2.04	0.03	0.21			3.26D	
	6.8H									
0.7 - 0.95	6.1B	4B								
	6.7H									
0.7 - 0.95	6.1B	4B								
	6.7H									

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3				%	
0 - 0.11												
0.16 - 0.26												
0.41 - 0.51												
0.5 - 0.7										69I		5
26												
0.5 - 0.7										69I		5
26												
0.7 - 0.95												
0.7 - 0.95												

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
 15J_BASIS 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