

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0163 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 23/04/92	Elevation: 250 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6295330 AMG zone: 50	Runoff: No Data
Easting/Lat.: 529230 Datum: AGD84	Drainage: Poorly 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: Level plain <9m <1%	Pattern Type: Alluvial plain
Morph. Type: Flat	Relief: 2 metres
Elem. Type: Plain	Slope Category: No Data
Slope: 0 %	Aspect: 90 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Sodic Calcic Brown Dermosol	Principal Profile Form: Dy3.13
ASC Confidence:	Great Soil Group: N/A
All necessary analytical data are available.	

Site Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A1 0 - 0.12 m	Dark yellowish brown (10YR4/6-Moist); , 10YR62, 20-50% , 15-30mm, Prominent; Clay loam, fine sandy;
Field pH 6.5	Weak grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Dry; Firm consistence; (Raupach); Many, fine (1-2mm) roots; Abrupt, Smooth change to -
B21 0.12 - 0.35 m	Yellowish brown (10YR5/8-Moist); Mottles, 10YR48, 10-20% , 5-15mm, Distinct; Light medium clay;
consistence;	Moderate grade of structure, 50-100 mm, Polyhedral; Smooth-ped fabric; Dry; Very strong
	Field pH 7 (Raupach); Many, fine (1-2mm) roots; Abrupt change to -
B22k 0.35 - 0.45 m	Dark yellowish brown (10YR4/4-Moist); Mottles, 10YR68, 20-50% , 5-15mm, Faint;
Medium clay;	Moderate grade of structure; Rough-ped fabric; Dry; Common (10 - 20 %), Calcareous,
Coarse (6 - 20	mm), Concretions; Soil matrix is Slightly calcareous; Field pH 7.5 (Raupach); Common,
very fine (0-	1mm) roots; Clear, Wavy change to -
B23k 0.45 - 0.6 m	Brownish yellow (10YR6/6-Moist); Mottles, 5YR58, 2-10% , 5-15mm, Distinct; Sandy light clay; Moderate
Coarse (6 - 20	grade of structure; Rough-ped fabric; Moderately moist; Very few (0 - 2 %), Calcareous,
fine (0-1mm)	mm), Concretions; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach); Few, very
	roots; Abrupt change to -
B31k 0.6 - 0.7 m	Dark greyish brown (2.5Y4/3-Moist); Mottles, 7.5YR68, 0-2% , 0-5mm, Distinct; Light medium clay;
Calcareous, Coarse	Moderate grade of structure; Rough-ped fabric; Moderately moist; Few (2 - 10 %),
Gradual change to	(6 - 20 mm), Concretions; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach);
	-
B32k 0.7 - 1 m	Greyish brown (2.5Y5/3-Moist); Mottles, 10YR68, 0-2% , 0-5mm, Distinct; Medium clay;
Moderate grade	of structure; Rough-ped fabric; Moderately moist; Common (10 - 20 %), Calcareous,
Coarse (6 - 20	

mm), Concretions; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach);

Morphological Notes

A1 SAMPLED FOR % CLAY
B21 PEDS HAVE 'SKIN' OF SURFACE LAYER. SAMPLED FOR % CLAY.

Observation Notes

Site Notes

1cm of loose wind blown sand

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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 - 0.12	7.2B 8H	16B								
0 - 0.12	7.2B 8H	16B								
0 - 0.11	5.9B									
0.12 - 0.35	6.6B 7.5H	52B	6.15A	7.93	0.87	3.79			18.74D	
0.12 - 0.35	6.6B 7.5H	52B	6.15A	7.93	0.87	3.79			18.74D	
0.12 - 0.35	6.6B 7.5H	52B	6.15A	7.93	0.87	3.79			18.74D	
0.16 - 0.26	6.61B									
0.41 - 0.51	7.65B									

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.12								
0 - 0.12								
0 - 0.11								
0.12 - 0.35								51I 9.5
39.5								
0.12 - 0.35								51I 9.5
39.5								
0.12 - 0.35								51I 9.5
39.5								
0.16 - 0.26								
0.41 - 0.51								

Laboratory Analyses Completed for this profile

13C1_AL Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15_NR_BSa Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR 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_BASES	salts
15L1_a	Sum of Bases
Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
	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

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P10_NR_Z Silt (%) - Not recorded