

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0175 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	01/05/92	Elevation:	230 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6289820 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	515510 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:	No Data

Surface Soil Condition Cracking, Hardsetting

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
N/A		Principal Profile Form:	Dg1.1
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site No effective disturbance other than grazing by hoofed animals

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A1	0 - 0.1 m	Dark grey (10YR4/1-Moist); , 0-0% ; Loam; Massive grade of structure; Dry; Very weak consistence;
		Field pH 5.5 (Raupach); Many, fine (1-2mm) roots; Clear, Wavy change to -
B21	0.1 - 0.3 m	Dark grey (5Y4/1-Moist); , 0-0% ; Medium clay; Strong grade of structure, 20-50 mm, Polyhedral;
		Smooth-ped fabric; Dry; Strong consistence; Field pH 5.5 (Raupach); Many, fine (1-2mm) roots; Gradual
		change to -
B22t	0.3 - 0.5 m	Grey (5Y5/1-Moist); , 0-0% ; Heavy clay; Strong grade of structure; Smooth-ped fabric; Moderately moist;
		Very firm consistence; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Gradual change to -
B23	0.5 - 0.8 m	Greyish brown (2.5Y5/2-Moist); , 0-0% ; Light medium clay; Strong grade of structure; Smooth-ped
		fabric; Moderately moist; Field pH 5 (Raupach); Few, fine (1-2mm) roots; Diffuse change to -
B3	0.8 - 1 m	Light brownish grey (2.5Y6/3-Moist); Mottles, 10YR66, 2-10% , 5-15mm, Faint; Strong grade of
		structure; Moderately moist; Field pH 4.5 (Raupach); Common, medium (2-5mm) roots;

Morphological Notes

A1	Sampled % clay.
B21	Sampled % clay.

Observation Notes

Site Notes

Close to lake; % clay of L1 & 2 to be checked to check classification.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.1	4.4B	27B							
	5.3H								
0 - 0.1	4.4B	27B							
	5.3H								
0 - 0.11	4.22B								
0.1 - 0.3	5.1B	68B	1.21H	6.33	0.39	4.58	0.06J	12.51D	
	6.1H								
0.1 - 0.3	5.1B	68B	1.21H	6.33	0.39	4.58	0.06J	12.51D	
	6.1H								
0.16 - 0.26	5.21B								
0.41 - 0.51	5.48B								

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m ³	GV CS FS Silt
0 - 0.1								
0 - 0.1								
0 - 0.11								
0.1 - 0.3								45.5I 10.5
44								
0.1 - 0.3								45.5I 10.5
44								
0.16 - 0.26								
0.41 - 0.51								

Laboratory Analyses Completed for this profile

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
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (Mn ²⁺) 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
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