

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0870 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 04/06/93	Elevation: 358 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6238290 AMG zone: 50	Runoff: No Data
Easting/Lat.: 511700 Datum: AGD84	Drainage: Imperfectly 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 low hills 30-90m 3-10% **Pattern Type:** Low hills

Morph. Type: Crest	Relief: 30 metres
Elem. Type: Summit surface	Slope Category: No Data
Slope: 0 %	Aspect: No Data

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: Dy5.41
	Great Soil Group: N/A

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

Vegetation:

Surface Coarse No surface coarse fragments; 2-10%, , angular, Quartz

Profile

A1	0 - 0.05 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Loamy coarse sand; Single grain grade of structure; Moist;
		Loose consistence; Field pH 5.5 (Raupach); Many, very fine (0-1mm) roots; Abrupt change to -
A2e	0.05 - 0.1 m	Light brownish grey (10YR6/2-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure;
		Moist; Loose consistence; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Abrupt change to -
B1	0.1 - 0.15 m	Light yellowish brown (10YR6/4-Moist); Mottles, 2.5YR46, 10-20% , 5-15mm, Distinct;
		Light medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Abrupt change to -
B2t	0.15 - 0.65 m	Light yellowish brown (10YR6/4-Moist); Mottles, 10YR68, 20-50% , 15-30mm, Distinct; , 2.5Y46, 2-10% ,
		5-15mm, Distinct; Medium clay; Strong grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Gradual change to -

Morphological Notes

B2t Kaolinised clay.

Observation Notes

Site Notes

Balgarup Road - similar to site 864 except clay is shallower at this site.

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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 - 0.1	4.7B									
0 - 0.1	4.7B									
0.15 - 0.35	4.7B									
	5.1B	10B	0.08H	4.78	0.19	0.68	0.04J		5.73D	
	6H									
0.15 - 0.35	5.1B	10B	0.08H	4.78	0.19	0.68	0.04J		5.73D	
	6H									
0.15 - 0.25	5B									
0.4 - 0.5	5.3B									

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 - 0.1								
0 - 0.1								
0.15 - 0.35								19.5I 3.5
77								
0.15 - 0.35								19.5I 3.5
77								
0.15 - 0.25								
0.4 - 0.5								

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 (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
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
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
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