Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **1068** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	21/07/93	**Elevation:**	284 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6333110 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	503970 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:	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 Firm

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

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Dy5.42
Great Soil Group: N/A

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

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 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 0.1 - 0.3 m Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure;
Moist; Loose consistence; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH
6 (Raupach); Common, very fine (0-1mm) roots; Clear change to -

B21 0.3 - 0.65 m Light yellowish brown (2.5Y6/4-Moist); Mottles, 10YR68, 10-20% , 5-15mm, Distinct; Light clay;
Moderate grade of structure; Rough-ped fabric; Wet; Weak consistence; 10-20%, fine gravelly, 2-6mm,
rounded, , coarse fragments; Field pH 7 (Raupach); Few, very fine (0-1mm) roots;
Gradual change to -

B22 0.65 - 0.9 m Brownish yellow (10YR6/6-Moist); Mottles, 10YR71, 10-20% , 5-15mm, Distinct; , 10YR58, 20-50% , 15-
30mm, Distinct; Light medium clay; Moderate grade of structure; Rough-ped fabric;
Moderately moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, rounded, , coarse fragments; Field pH 7 (Raupach);
Few, very fine (0-1mm) roots;

Morphological Notes

Observation Notes

Site Notes

Site along Wangeling Gully Road.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	4.1B									
0.15 - 0.25	4.4B									
0.3 - 0.6	5.9B 6.7H	4B	1.96A	1.99	0.08	0.24			4.27D	
0.3 - 0.6	5.9B 6.7H	4B	1.96A	1.99	0.08	0.24			4.27D	
0.4 - 0.5	5.8B									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1											
0.15 - 0.25											
0.3 - 0.6									49I		6.5
44.5											
0.3 - 0.6									49I		6.5
44.5											
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_CMR	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	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