Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0092** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 08/11/91
Map Ref.:
Northing/Long.: 6265110 AMG zone: 50
Easting/Lat.: 563360 Datum: AGD84
Locality:
Elevation: 305 metres
Rainfall: No Data
Runoff: No Data
Drainage: Imperfectly drained

Geology

ExposureType: Auger boring
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: Gently undulating rises 9-30m 1-3%
Pattern Type: Rises

Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 2 %
Relief: 10 metres
Slope Category: No Data
Aspect: 180 degrees

Surface Soil Condition Hardsetting, Hardsetting

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: Dy3.43
Great Soil Group: N/A

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

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A1 0 - 0.08 m Dark grey (10YR4/1-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Moderately moist; 2-10%, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Coarse (6 - 20 mm), Concretions; Water repellent; Field pH 5.5 (Raupach); Many, fine (1-2mm) roots; Abrupt change to -

A2e 0.08 - 0.18 m Greyish brown (10YR5/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Moderately moist; 10-20%, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), Concretions; Field pH 7.5 (Raupach); Many, fine (1-2mm) roots; Sharp change to -

B21t 0.18 - 0.4 m Greyish brown (10YR5/2-Moist); Mottles, 10YR68, 20-50% , 5-15mm, Faint; Medium clay; Strong grade of structure, 200-500 mm, Columnar; Strong grade of structure, 20-50 mm, Polyhedral; Smooth-ped fabric; Dry; Field pH 8 (Raupach); Common, fine (1-2mm) roots; Gradual change to -

B22 0.4 - 0.5 m Light brownish grey (2.5Y6/3-Moist); Mottles, 10YR68, 10-20% , 0-5mm, Faint; Sandy light medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; 2-10%, Ironstone, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Coarse (6 - 20 mm), Concretions; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach); Few, medium (2-5mm) roots;

Morphological Notes

A1	F QZ & M IS
A2e	F QZ & M IS
B21t	SAMPLED
B22	M IS

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0.18 - 0.4	6.7B 8.1H	5B	3.11E	3.57	0.28	0.62		9B	7.58D	6.89
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Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis			
		Clay						GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0.18 - 0.4 32.5	<2C								65I		2.5
0.18 - 0.4 32.5	<2C								65I		2.5
0.18 - 0.4 32.5	<2C								65I		2.5

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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
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