Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0086** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 04/11/91
Map Ref.:
Northing/Long.: 6268550 AMG zone: 50
Easting/Lat.: 577840 Datum: AGD84
Locality:
Elevation: 278 metres
Rainfall: No Data
Runoff: No Data
Drainage: Poorly 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: Level plain <9m <1%
Morph. Type: Flat
Elem. Type: Plain
Slope: 0 %
Pattern Type: Alluvial plain
Relief: 1 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: Dy3.13
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%, , subrounded, Silcrete

Profile

A1 0 - 0.1 m Very dark grey (5YR3/1-Moist); , 0-0% ; Clay loam, fine sandy; Massive grade of structure; Dry; Water repellent; Field pH 6 (Raupach); Abundant, fine (1-2mm) roots; Clear change to -

B21t 0.1 - 0.3 m Light yellowish brown (10YR6/4-Moist); , 10YR51, 10-20% , 5-15mm, Faint; Medium clay; Weak grade of structure; Rough-ped fabric; Dry; Field pH 8 (Raupach); Common, fine (1-2mm) roots; Clear change to -

B22k 0.3 - 0.5 m Light yellowish brown (2.5Y6/4-Moist); Mottles, 5YR68, 2-10% , 0-5mm, Faint; Light medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Common (10 - 20 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach); Few, fine (1-2mm) roots; Gradual change to -

B23 0.5 - 0.7 m Light brownish grey (2.5Y6/3-Moist); Mottles, 5YR68, 2-10% , 0-5mm, Distinct; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Concretions; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

B3 0.7 - 1 m Light brownish grey (2.5Y6/2-Moist); Mottles, 5YR68, 2-10% , 0-5mm, Faint; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach);

Morphological Notes

A1 SAMPLED - 18% CLAY
B21t SAMPLED +S
B3 +S

Observation Notes

Site Notes

Slight salinity - at risk of increasing

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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 - 0.1	5.5B 6.6H	11B								
0 - 0.1	5.5B 6.6H	11B								
0.1 - 0.3	7.1B 8.3H	16B	5.48E	5.36	0.48	2.27		16B	13.59D	14.19
0.1 - 0.3	7.1B 8.3H	16B	5.48E	5.36	0.48	2.27		16B	13.59D	14.19
0.1 - 0.3	7.1B 8.3H	16B	5.48E	5.36	0.48	2.27		16B	13.59D	14.19

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 - 0.1	18										
0 - 0.1	18										
0.1 - 0.3	<2C								51I		8
41											
0.1 - 0.3	<2C								51I		8
41											
0.1 - 0.3	<2C								51I		8
41											

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