Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **1203** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 23/08/93
Map Ref.:
Northing/Long.: 6345540 AMG zone: 50
Easting/Lat.: 527190 Datum: AGD84
Locality:
Elevation: 295 metres
Rainfall: No Data
Runoff: No Data
Drainage: Moderately well 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: Upper-slope
Elem. Type: Hillslope
Slope: 1 %
Relief: 90 metres
Slope Category: No Data
Aspect: 135 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:
Calcic Subnatric Red Sodosol
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Dr2.13
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

Ap 0 - 0.08 m Brown (7.5YR4/3-Moist); , 0-0% ; Clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Moderately moist; Weak consistence; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Abrupt, Smooth change to -

B21 0.08 - 0.3 m Yellowish red (5YR4/6-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach); Common, very fine (0-1mm) roots; Clear change to -

B22k 0.3 - 0.5 m Yellowish red (5YR4/6-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence; Common (10 - 20 %), Manganiferous, Fine (0 - 2 mm), Nodules; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Concretions; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach); Few, very fine (0-1mm) roots; Clear change to -

C 0.5 - 0.6 m Yellowish red (5YR5/6-Moist); , 10YR73, 10-20% , 15-30mm, Faint; Medium clay; Strong grade of structure; Smooth-ped fabric; Moderately moist; Very firm consistence; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach); Few, very fine (0-1mm) roots;

Morphological Notes

C Kaolinitic clay

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.08	5.7B 6.7H	13B	5.9A	3.85	3.3	0.71			13.76D	
0 - 0.08	5.7B 6.7H	13B	5.9A	3.85	3.3	0.71			13.76D	
0 - 0.1	6.1B									
0.08 - 0.3	8.4B 9.2H	25B	4.41E	7.16	2.57	2.27		18B	16.41D	12.61
0.08 - 0.3	8.4B 9.2H	25B	4.41E	7.16	2.57	2.27		18B	16.41D	12.61
0.08 - 0.3	8.4B 9.2H	25B	4.41E	7.16	2.57	2.27		18B	16.41D	12.61
0.15 - 0.25	7.9B									
0.4 - 0.5	8.2B									

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 - 0.08									72I		13
15											
0 - 0.08									72I		13
15											
0 - 0.1											
0.08 - 0.3	3C								41I		10.5
48.5											
0.08 - 0.3	3C								41I		10.5
48.5											
0.08 - 0.3	3C								41I		10.5
48.5											
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_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
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

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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