Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **2324** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 24/08/95
Map Ref.:
Northing/Long.: 6240730 AMG zone: 50
Easting/Lat.: 586110 Datum: AGD84
Locality:
Elevation: 260 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: 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: Dy2.13
Great Soil Group: N/A

Site Cultivation. Rainfed

Vegetation:

Surface Coarse 2-10%, medium gravelly, 6-20mm, subangular, Gneiss; No surface coarse fragments

Profile

Ap 0 - 0.05 m Very dark grey (10YR3/1-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Moderately moist; Weak consistence; Field pH 6 (Raupach); Abrupt, Wavy change to -

B21 0.05 - 0.3 m Yellowish brown (10YR5/5-Moist); Mottles, 10YR58, 2-10% , 5-15mm, Faint; Medium heavy clay; Moderate grade of structure; Rough-ped fabric; Dry; Strong consistence; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach); Clear change to -

B22 0.3 - 0.6 m Light yellowish brown (10YR6/4-Moist); , 0-0% ; Medium heavy clay; Moderate grade of structure; Rough-ped fabric; Dry; Strong consistence; Soil matrix is Slightly calcareous; Field pH 9 (Raupach); Clear change to -

B3 0.6 - 0.85 m Light yellowish brown (10YR6/4-Moist); Mottles, 10YR68, 10-20% , 15-30mm, Distinct; Mottles, 2.5YR46, 2-10% , 15-30mm, Distinct; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence; Field pH 8.5 (Raupach); Abrupt change to -

C 0.85 - 1 m Light grey (10YR7/2-Moist); Mottles, 10YR66, 10-20% , 15-30mm, Distinct; Mottles, 2.5YR46, 2-10% , 15-30mm, Distinct; Medium clay; Moderate grade of structure; Smooth-ped fabric; Moderately moist; Strong consistence; Field pH 7.5 (Raupach);

Morphological Notes

B21 Organic cutans common
B22 Few organic cutans
C Plant roots extend into this layer; kaolinitic clay

Observation Notes

Site Notes

Ros Jettner's 95 Gnowangerup Main Trial on Dick Garnett's. Willemup Rd

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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 - 0.05	4.7B 5.4H 4.8B	25B	4.3H	3.1	0.32	0.57	0.17J		8.29D	
0 - 0.05	4.7B 5.4H 4.8B	25B	4.3H	3.1	0.32	0.57	0.17J		8.29D	
0 - 0.05	4.7B 5.4H 4.8B	25B	4.3H	3.1	0.32	0.57	0.17J		8.29D	
0 - 0.05	4.7B 5.4H 4.8B	25B	4.3H	3.1	0.32	0.57	0.17J		8.29D	
0.05 - 0.25	6.9B 8H	20B	3.68A	6.68	0.18	1.86			12.4D	
0.05 - 0.25	6.9B 8H	20B	3.68A	6.68	0.18	1.86			12.4D	
0.05 - 0.25	6.9B 8H	20B	3.68A	6.68	0.18	1.86			12.4D	
0.15 - 0.25	6.9B									
0.4 - 0.5	7.6B									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis		
		Clay							CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.05 18		1.96D							77I		5
0 - 0.05 18		1.96D							77I		5
0 - 0.05 18		1.96D							77I		5
0 - 0.05 18		1.96D							77I		5
0.05 - 0.25 47	<2C	0.49D							48.5I		4.5
0.05 - 0.25 47	<2C	0.49D							48.5I		4.5
0.05 - 0.25 47	<2C	0.49D							48.5I		4.5
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

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

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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
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
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
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