Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **1132** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 10/08/93
Map Ref.:
Northing/Long.: 6325870 AMG zone: 50
Easting/Lat.: 561240 Datum: AGD84
Locality:
Elevation: 346 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: Undulating low hills 30-90m 3-10%
Pattern Type: Low hills

Morph. Type: Upper-slope
Elem. Type: Hillcrest
Slope: 4 %
Relief: 40 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: Dr4.23
Great Soil Group: N/A

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

Vegetation:

Surface Coarse 10-20%, medium gravelly, 6-20mm, subangular, Gabbro; 10-20%, , subangular, Dolerite

Profile

A11 0 - 0.1 m Very dark brown (7.5YR2/3-Moist); , 0-0% ; Fine sandy clay loam; Single grain grade of structure; Dry; 2-10%, fine gravelly, 2-6mm, angular, Dolerite, coarse fragments; Field pH 6.5 (Raupach); Abundant, very fine (0-1mm) roots; Abrupt change to -

A12 0.1 - 0.3 m Dark reddish brown (5YR2/2-Moist); , 0-0% ; Clay loam; Moderate grade of structure; Rough-ped fabric; Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Dolerite, coarse fragments; Field pH 7.5 (Raupach); Many, very fine (0-1mm) roots; Clear change to -

A2 0.3 - 0.4 m Dark reddish brown (5YR3/3-Moist); , 0-0% ; Clay loam, fine sandy; Weak grade of structure; Rough-ped fabric; Dry; Firm consistence; 10-20%, medium gravelly, 6-20mm, subangular, Gabbro, coarse fragments; Field pH 8 (Raupach); Common, very fine (0-1mm) roots; Clear change to -

B2tk 0.4 - 0.6 m Dark reddish brown (5YR3/4-Moist); , 0-0% ; Medium clay; Strong grade of structure; Rough-ped fabric; Dry; Strong consistence; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach); Few, very fine (0-1mm) roots;

Morphological Notes

Observation Notes

Site Notes

next to a large dolerite dyke - upslope of KLC1131. Where slope is less (and possibly clay is shallower), evidence of waterlogging in adjacent cereal crop.

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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							%
0.4 - 0.6	8.2B 9.1H	61B	14.4E	9.32	0.12	5.43		26B	29.27D	20.88
0.4 - 0.6	8.2B 9.1H	61B	14.4E	9.32	0.12	5.43		26B	29.27D	20.88
0.4 - 0.6	8.2B 9.1H	61B	14.4E	9.32	0.12	5.43		26B	29.27D	20.88

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			%	
0.4 - 0.6 43.5	3C								45.5I		11
0.4 - 0.6 43.5	3C								45.5I		11
0.4 - 0.6 43.5	3C								45.5I		11

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