Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **1975** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 01/09/94
Map Ref.:
Northing/Long.: 6283780 AMG zone: 50
Easting/Lat.: 476740 Datum: AGD84
Locality:
Elevation: 250 metres
Rainfall: No Data
Runoff: No Data
Drainage: 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 rises 9-30m 3-10%
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 4 %
Pattern Type: Rises
Relief: 20 metres
Slope Category: No Data
Aspect: 180 degrees

Surface Soil Condition Firm

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: Dy5.21
Great Soil Group: N/A

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

Vegetation:

Surface Coarse 20-50%, medium gravelly, 6-20mm, rounded, ; 2-10%, , subangular, Quartz

Profile

A1c 0 - 0.15 m Very dark grey (10YR3/1-Moist); , 0-0% ; Sand; Single grain grade of structure; Moderately moist; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; 10-20%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6.5 (Raupach); Clear change to -

A21c 0.15 - 0.3 m Brown (10YR5/3-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moist; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; 20-50%, medium gravelly, 6-20mm, rounded, , coarse fragments; 20-50%, coarse gravelly, 20-60mm, subrounded, , coarse fragments; Field pH 7 (Raupach); Clear change to -

A22c 0.3 - 0.5 m Yellowish brown (10YR5/4-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure; Moist; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; 20-50%, fine gravelly, 2-6mm, rounded, , coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 7 (Raupach); Abrupt change to -

B21 0.5 - 0.6 m Light yellowish brown (10YR6/4-Moist); Mottles, 7.5YR58, 10-20% , 5-15mm, Distinct; Sandy light medium clay; Moderate grade of structure; Smooth-ped fabric; Moderately moist; Field pH 6.5 (Raupach); Clear change to -

B22 0.6 - 0.85 m Brownish yellow (10YR6/6-Moist); Mottles, 2.5YR46, 10-20% , 5-15mm, Distinct; Light medium clay; Moderate grade of structure; Smooth-ped fabric; Moderately moist; Field pH 6 (Raupach); Clear change to -

B3 0.85 - 0.9 m Brownish yellow (10YR6/6-Moist); Mottles, 2.5YR46, 20-50% , 15-30mm, Distinct; Medium clay; Strong grade of structure, Polyhedral; Smooth-ped fabric; Moderately moist; Field pH 5.5 (Raupach);

Morphological Notes

B21	Kaolinitic clay
B22	Kaolinitic clay
B3	Kaolinitic clay

Observation Notes

Site Notes

Site along Capercup South Road - part of Capercup system (?).

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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	5.7B									
0.15 - 0.25	5.9B									
0.4 - 0.5	5.9B									
0.5 - 0.6	5.7B 6.4H	4B	1.2H	2.3	0.03	0.22	<0.02J		3.75D	

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											
0.15 - 0.25											
0.4 - 0.5											
0.5 - 0.6									46I		7.5
		46.5									

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
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
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
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
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_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded