Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0427** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 26/08/92
Map Ref.:
Northing/Long.: 6283080 AMG zone: 50
Easting/Lat.: 577630 Datum: AGD84
Locality:
Elevation: 305 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: Mid-slope
Elem. Type: Hillslope
Slope: 2 %
Relief: 25 metres
Slope Category: No Data
Aspect: 90 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: Dy3.43
Great Soil Group: N/A

Site Cultivation. Rainfed

Vegetation:

Surface Coarse 50-90%, medium gravelly, 6-20mm, rounded, ; No surface coarse fragments

Profile

A1 0 - 0.1 m Dark brown (10YR3/3-Moist); , 0-0% ; Sandy loam; Weak grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Moist; Very weak consistence; 50-90%, fine gravelly, 2-6mm, rounded, , coarse fragments; Very many (50 - 100 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Abrupt, Smooth change to -

A2e 0.1 - 0.25 m Pale brown (10YR6/3-Moist); , 0-0% ; Single grain grade of structure; Moist; Loose consistence; 50-90%, fine gravelly, 2-6mm, rounded, , coarse fragments; Very many (50 - 100 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 7.5 (Raupach); Few, fine (1-2mm) roots; Abrupt change to -

B21t 0.25 - 0.5 m Brownish yellow (10YR6/7-Moist); Mottles, 5YR58, 10-20% , 5-15mm, Faint; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence; 20-50%, fine gravelly, 2-6mm, rounded, , coarse fragments; Common (10 - 20 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 8 (Raupach); Few, very fine (0-1mm) roots; Clear change to -

B22t 0.5 - 0.9 m Olive yellow (2.5Y6/7-Moist); Mottles, 5YR58, 20-50% , 5-15mm, Faint; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, rounded, , coarse fragments; Common (10 - 20 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 8.5 (Raupach); Few, very fine (0-1mm) roots; Clear change to -

B3 0.9 - 1 m Brownish yellow (10YR6/8-Moist); Mottles, 10R46, 20-50% , 15-30mm, Distinct; Light medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence; 10-20%, fine gravelly, 2-6mm, rounded, , coarse fragments; Common (10 - 20 %),

Ferromanganiferous, Medium (2 -6
mm), Nodules; Field pH 9 (Raupach);

Morphological Notes

A1 Black gravel

Observation Notes

Site Notes

Rockwell Road

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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 - 0.11	5.42B									
0.16 - 0.26	6.3B									
0.25 - 0.45	7B 8.3H	5B	3.85E	4.82	0.32	0.65		12B	9.64D	5.42
0.25 - 0.45	7B 8.3H	5B	3.85E	4.82	0.32	0.65		12B	9.64D	5.42
0.25 - 0.45	7B 8.3H	5B	3.85E	4.82	0.32	0.65		12B	9.64D	5.42
0.41 - 0.51	6.9B									

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 - 0.11											
0.16 - 0.26											
0.25 - 0.45	<2C										
0.25 - 0.45	<2C										
0.25 - 0.45	<2C										
0.41 - 0.51											

Laboratory Analyses Completed for this profile

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)