Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0123** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 20/11/91
Map Ref.:
Northing/Long.: 6270470 AMG zone: 50
Easting/Lat.: 548910 Datum: AGD84
Locality:
Elevation: 305 metres
Rainfall: No Data
Runoff: No Data
Drainage: Poorly 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: No Data
Elem. Type: Drainage depression
Slope: 1 %
Relief: 50 metres
Slope Category: No Data
Aspect: 135 degrees

Surface Soil Condition Saline, 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: Dy3.13
Great Soil Group: N/A

Site Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A1 0 - 0.14 m Dark greyish brown (10YR4/2-Moist); , 0-0% ; Loamy coarse sand; Single grain grade of structure; Dry;
Field pH 7.5 (Raupach); Few, very fine (0-1mm) roots; Abrupt change to -

B21 0.14 - 0.28 m Yellowish brown (10YR5/4-Moist); Mottles, 10YR54, 20-50% , 15-30mm, Faint; Sandy light clay;
Moderate grade of structure; Rough-ped fabric; Moderately moist; Soil matrix is Slightly calcareous;
Field pH 8.5 (Raupach); Few, very fine (0-1mm) roots; Clear change to -

B22 0.28 - 0.65 m Brown (10YR5/3-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Rough-ped fabric; Moist;
Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Slightly calcareous;
Field pH 9 (Raupach); Gradual change to -

B23 0.65 - 0.85 m Brown (10YR5/3-Moist); Mottles, 10YR54, 20-50% , 5-15mm, Distinct; Fine sandy light medium clay;
Weak grade of structure; Rough-ped fabric; Moist; 2-10%, Quartz, coarse fragments; Common (10 - 20
%), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 9 (Raupach); Gradual change to -

B24 0.85 - 1.1 m Greyish brown (2.5Y5/2-Moist); Mottles, 7.5YR56, 20-50% , 5-15mm, Distinct; Sandy medium clay;
Rough-ped fabric; Wet; 20-50%, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6
mm), Soft segregations; Field pH 8.5 (Raupach);

Morphological Notes

A1	<1MM KS SAMPLED
B21	SAMPLED
B23	C S QZ SAMPLED
B24	COURSE QZ AND GRANITE ROCK FRAG. H20 AT 90CM

Observation Notes

Site Notes

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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 - 0.14	6.4B 7.2H	8B								
0 - 0.14	6.4B 7.2H	8B								
0.14 - 0.28	7.2B 8.7H	19B	1.1E	1.72	0.05	0.62		5B	3.49D	12.40
0.14 - 0.28	7.2B 8.7H	19B	1.1E	1.72	0.05	0.62		5B	3.49D	12.40
0.14 - 0.28	7.2B 8.7H	19B	1.1E	1.72	0.05	0.62		5B	3.49D	12.40
0.65 - 0.85	8.5B 9.1H	170B								
0.65 - 0.85	8.5B 9.1H	170B								

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 - 0.14											
0 - 0.14											
0.14 - 0.28	<2C								83I		8
9											
0.14 - 0.28	<2C								83I		8
9											
0.14 - 0.28	<2C								83I		8
9											
0.65 - 0.85											
0.65 - 0.85											

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