Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0046** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 15/10/91
Map Ref.:
Northing/Long.: 6257900 AMG zone: 50
Easting/Lat.: 585960 Datum: AGD84
Locality:
Elevation: 295 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: Gently undulating rises 9-30m 1-3%
Pattern Type: Rises

Morph. Type: Lower-slope
Elem. Type: Hillslope
Slope: 2 %
Relief: 10 metres
Slope Category: No Data
Aspect: 0 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 Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A1 0 - 0.05 m Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Water repellent; Field pH 6 (Raupach); Few, medium (2-5mm) roots; Abrupt, Wavy change to -

B21tk 0.05 - 0.3 m Light brownish grey (2.5Y6/3-Moist); Mottles, 7.5YR66, 0-2% , 0-5mm, Faint; Fine sandy medium clay; Strong grade of structure; Rough-ped fabric; Dry; Common (10 - 20 %), Organic (humified), Medium (2 -6 mm), Root linings; Soil matrix is Slightly calcareous; Field pH 7 (Raupach); Few, fine (1-2mm) roots; Gradual change to -

B22k 0.3 - 0.5 m Light brownish grey (2.5Y6/2-Moist); Mottles, 7.5YR66, 0-2% , 0-5mm, Faint; Medium clay; Strong grade of structure; Rough-ped fabric; Dry; Common (10 - 20 %), Calcareous, Medium (2 - 6 mm), Concretions; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Concretions; Calcareous, Very coarse (20 - 60 mm), Concretions; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach); Few, fine (1-2mm) roots; Clear change to -

B23k 0.5 - 0.6 m Light yellowish brown (2.5Y6/4-Moist); Mottles, 7.5YR66, 2-10% , 5-15mm, Faint; Medium clay; Strong grade of structure; Rough-ped fabric; Dry; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Concretions; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Concretions; Many (20 - 50 %), Calcareous, Extremely coarse (> 60 mm), Concretions; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach); Few, fine (1-2mm) roots;

B24k 0.6 - 0.8 m Light yellowish brown (10YR6/4-Moist); Mottles, 7.5YR66, 2-10% , 0-5mm, Faint; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Concretions; Many (20 - 50 %), Calcareous, Very coarse (20 - 60

mm),
Concretions; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach);

B3k 0.8 - 1.1 m Yellow (10YR7/6-Moist); Mottles, 7.5YR68, 20-50% , 5-15mm, Distinct; Fine sandy light medium clay;
Moderate grade of structure; Rough-ped fabric; Moderately moist; Few (2 - 10 %), Calcareous, Medium
(2 -6 mm), Concretions; Field pH 9.5 (Raupach);

Morphological Notes

B21tk	SAMPLE 923-6
B22k	923-6+FS
B23k	923-6+FS

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0.05 - 0.3	6.7B 8.1H	9B	3.45E	4.81	0.07	1.73		10B	10.06D	17.30
0.05 - 0.3	6.7B 8.1H	9B	3.45E	4.81	0.07	1.73		10B	10.06D	17.30
0.05 - 0.3	6.7B 8.1H	9B	3.45E	4.81	0.07	1.73		10B	10.06D	17.30

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0.05 - 0.3 34	<2C								60I		6	
0.05 - 0.3 34	<2C								60I		6	
0.05 - 0.3 34	<2C								60I		6	

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