Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0428** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	26/08/92	**Elevation:**	325 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6281910 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	573030 Datum: AGD84	**Drainage:**	Poorly drained

Geology

ExposureType:	Auger boring	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	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	**Relief:**	60 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	4 %	**Aspect:**	180 degrees

Surface Soil Condition Surface flake, Hardsetting

Erosion: (wind); (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification:
Epihypersodic Pedal Hypercalcic Calcarosol
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Gc1.12
Great Soil Group: N/A

Site Cultivation. Rainfed

Vegetation:

Surface Coarse 20-50%, medium gravelly, 6-20mm, subangular, Basalt; 20-50%, , subangular, Basalt

Profile

A1 0 - 0.12 m Dark reddish brown (2.5YR3/3-Moist); , 0-0% ; Clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Moderately moist; Very weak consistence; 10-20%, coarse gravelly, 20-60mm, subangular, Basalt, coarse fragments; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach); Few, fine (1-2mm) roots; Abrupt change to -

B21tk 0.12 - 0.25 m Reddish brown (5YR4/4-Moist); , 0-0% ; Light clay; Massive grade of structure; Moderately moist; Very weak consistence; 20-50%, coarse gravelly, 20-60mm, subangular, Basalt, coarse fragments; Soil matrix is Very highly calcareous; Field pH 9.5 (Raupach); Few, fine (1-2mm) roots; Abrupt change to -

B22tk 0.25 - 0.5 m Reddish brown (5YR4/4-Moist); , 0-0% ; Medium clay; Massive grade of structure; Moderately moist; Weak consistence; Very many (50 - 100 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; Soil matrix is Very highly calcareous; Field pH 9.5 (Raupach); Few, very fine (0-1mm) roots;

Morphological Notes

A1 Sampled for full analysis(?)
B22tk Coarse gneiss or gabbro. Stones stopped further augering at 50cm

Observation Notes

Site Notes

Stott Road

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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 - 0.12	7.8B 8.4H	22B	21.22E	6.13	3.87	0.27		33B	31.49D	0.82
0 - 0.12	7.8B 8.4H	22B	21.22E	6.13	3.87	0.27		33B	31.49D	0.82
0 - 0.12	7.8B 8.4H	22B	21.22E	6.13	3.87	0.27		33B	31.49D	0.82
0 - 0.11	7.83B									
0.12 - 0.25	8.2B 9.1H	24B	14.18E	7.99	2.34	1.68		27B	26.19D	6.22
0.12 - 0.25	8.2B 9.1H	24B	14.18E	7.99	2.34	1.68		27B	26.19D	6.22
0.12 - 0.25	8.2B 9.1H	24B	14.18E	7.99	2.34	1.68		27B	26.19D	6.22
0.16 - 0.26	8.05B									
0.25 - 0.5	8.8B 9.8H	110B	3.22E	10.05	1.41	7.82		21B	22.5D	37.24
0.25 - 0.5	8.8B 9.8H	110B	3.22E	10.05	1.41	7.82		21B	22.5D	37.24
0.25 - 0.5	8.8B 9.8H	110B	3.22E	10.05	1.41	7.82		21B	22.5D	37.24
0.41 - 0.51	8.69B									

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 - 0.12	7C	2.15D		850B	0.176E						23.2	25.4
0 - 0.12	7C	2.15D		850B	0.176E						23.2	25.4
0 - 0.12	7C	2.15D		850B	0.176E						23.2	25.4
0 - 0.11												
0.12 - 0.25	11C	1.38D		280B	0.104E						18.6	29.8
0.12 - 0.25	11C	1.38D		280B	0.104E						18.6	29.8
0.12 - 0.25	11C	1.38D		280B	0.104E						18.6	29.8
0.16 - 0.26												
0.25 - 0.5	26C	0.54D		140B	0.036E						16.5	42.6
0.25 - 0.5	26C	0.54D		140B	0.036E						16.5	42.6
0.25 - 0.5	26C	0.54D		140B	0.036E						16.5	42.6
0.41 - 0.51												

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

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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
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9H1	Anion storage capacity
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_20_75	20 to 75u particle size analysis, (method not recorded)
P10_75_106	75 to 106u particle size analysis, (method not recorded)
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10106_150	106 to 150u particle size analysis, (method not recorded)
P10150_180	150 to 180u particle size analysis, (method not recorded)
P10180_300	180 to 300u particle size analysis, (method not recorded)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)