Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **1590** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	16/02/94	**Elevation:**	299 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6299040 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	581800 Datum: AGD84	**Drainage:**	Well drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	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	**Relief:**	25 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	2 %	**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: Dy3.62
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, subrounded, ; No surface coarse fragments

Profile

A1p 0 - 0.1 m Dark greyish brown (10YR4/2-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Dry; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; 10-20%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 5.5 (Raupach); Abrupt, Smooth change to -

A2 0.1 - 0.4 m Light yellowish brown (10YR6/4-Moist); , 0-0% ; Massive grade of structure; Dry; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; 20-50%, coarse gravelly, 20-60mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Abrupt, Irregular change to -

B1 0.4 - 0.5 m Yellowish brown (10YR5/8-Moist); Mottles, 2.5YR46, 10-20% , 0-5mm, Distinct; Clayey coarse sand; Massive grade of structure; Dry; 10-20%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 6.5 (Raupach); Clear change to -

B 0.5 - 0.9 m Brownish yellow (10YR6/8-Moist); Mottles, 2.5YR46, 20-50% , 5-15mm, Distinct; Sandy clay loam; Massive grade of structure; Dry; 10-20%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 6.5 (Raupach); Gradual change to -

C 0.9 - 1.4 m White (10YR8/1-Moist); Mottles, 10R36, 20-50% , 15-30mm, Distinct; Mottles, 10YR66, 10-20% , 5-15mm, Distinct; Sandy clay loam; Massive grade of structure; Dry; Field pH 6.5 (Raupach);

Morphological Notes

B1 Varies between 30 and 50 lacks gravel

Observation Notes

Site Notes

Datatine Soil pit 3 - 50m downslope of KLC 1589

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Exchangeable Cations Ca	Mg	K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.1	4.5B 5.3H 4.4B 5.3H	7B 8B	1.5H	0.38	0.32	0.17	0.38J		2.37D	
0 - 0.1	4.5B 5.3H 4.4B 5.3H	7B 8B	1.5H	0.38	0.32	0.17	0.38J		2.37D	
0 - 0.1	4.5B 5.3H 4.4B 5.3H	7B 8B	1.5H	0.38	0.32	0.17	0.38J		2.37D	
0 - 0.1	4.5B 5.3H 4.4B 5.3H	7B 8B	1.5H	0.38	0.32	0.17	0.38J		2.37D	
0.1 - 0.4	5.1B 6H	4B	1.3H	0.87	0.08	0.23	<0.02J		2.48D	
0.1 - 0.4	5.1B 6H	4B	1.3H	0.87	0.08	0.23	<0.02J		2.48D	
0.4 - 0.5	5.8B 6.2H	10B	1H	2.4	0.1	0.64	<0.02J		4.14D	
0.4 - 0.5	5.8B 6.2H	10B	1H	2.4	0.1	0.64	<0.02J		4.14D	
0.5 - 0.8	5.9B 6.2H	15B	0.83H	2.9	0.12	1	<0.02J		4.85D	
0.5 - 0.8	5.9B 6.2H	15B	0.83H	2.9	0.12	1	<0.02J		4.85D	
0.5 - 0.8	5.9B 6.2H	15B	0.83H	2.9	0.12	1	<0.02J		4.85D	
0.8 - 0.9	5.8B 6.1H	21B	0.65H	3	0.11	1.4	<0.02J		5.16D	
0.8 - 0.9	5.8B 6.1H	21B	0.65H	3	0.11	1.4	<0.02J		5.16D	
0.8 - 0.9	5.8B 6.1H	21B	0.65H	3	0.11	1.4	<0.02J		5.16D	
0.9 - 1.4	5.7B 6.1H	32B	0.51H	3.1	0.12	1.5	<0.02J		5.23D	
0.9 - 1.4	5.7B 6.1H	32B	0.51H	3.1	0.12	1.5	<0.02J		5.23D	

Depth m	CaCO3 %	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle Size Analysis GV	CS	FS %	Silt	Clay
0 - 0.1		1.26D 1.28D		190B 180B	0.097E 0.096E						6.1	10.5
0 - 0.1		1.26D 1.28D		190B 180B	0.097E 0.096E						6.1	10.5
0 - 0.1		1.26D 1.28D		190B 180B	0.097E 0.096E						6.1	10.5

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0 - 0.1	1.26D	190B	0.097E	6.1
10.5				
	1.28D	180B	0.096E	
0.1 - 0.4	0.41D	63B	0.036E	5
15.4				
0.1 - 0.4	0.41D	63B	0.036E	5
15.4				
0.4 - 0.5	0.12D	35B	0.012E	5
16.4				
0.4 - 0.5	0.12D	35B	0.012E	5
16.4				
0.5 - 0.8	0.06D	26B	0.007E	9.7
20.7				
0.5 - 0.8	0.06D	26B	0.007E	9.7
20.7				
0.5 - 0.8	0.06D	26B	0.007E	9.7
20.7				
0.8 - 0.9	0.04D	22B	0.004E	12.9
22.2				
0.8 - 0.9	0.04D	22B	0.004E	12.9
22.2				
0.8 - 0.9	0.04D	22B	0.004E	12.9
22.2				
0.9 - 1.4	0.05D	26B	0.005E	11.6
28.8				
0.9 - 1.4	0.05D	26B	0.005E	11.6
28.8				

Laboratory Analyses Completed for this profile

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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
18A1_NR	Bicarbonate-extractable potassium (not recorded)
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B_AL_NR	Aluminium in 1:5 soil/0.01M calcium chloride extract - method 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
9B_NR	Bicarbonate-extractable phosphorus (not recorded)
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)