Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **2007** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	John-Paul Van Moort	**Locality:**	
Date Desc.:	16/03/94	**Elevation:**	220 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6298280 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	472230 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:	Undulating rises 9-30m 3-10%	**Pattern Type:**	Rises
Morph. Type:	Mid-slope	**Relief:**	30 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	4 %	**Aspect:**	No Data

Surface Soil Condition Loose

Erosion: (wind); (sheet)

Soil Classification

Australian Soil Classification: N/A
ASC Confidence: Confidence level not specified

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

Site Vegetation: Complete clearing. Pasture, native or improved, cultivated at some stage

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A1p 0 - 0.1 m Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Dry; Water repellent; Field pH 5.5 (Raupach); Clear change to -

A2e 0.1 - 0.35 m Very pale brown (10YR7/3-Moist); , 0-0% ; Sand; Single grain grade of structure; Moderately moist; Field pH 6 (Raupach); Gradual change to -

B1 0.35 - 0.6 m Light grey (10YR7/2-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moderately moist; Field pH 6.5 (Raupach); Gradual change to -

B2w 0.6 - 1.8 m Brownish yellow (10YR6/6-Moist); Mottles, 10YR78, 20-50% ; , 10YR82, 10-20% ; Clayey sand; Single grain grade of structure; Moderately moist; 2-10%, fine gravelly, 2-6mm, , coarse fragments; Field pH 6 (Raupach);

Ccm 1.8 - m ;

Morphological Notes

Ccm Ferricrete

Observation Notes

Site Notes

Soil pit - Date Creek Catchment - deep sand. Pit on Rutherford's property "Goldmead" at Capercup. Site off Lloyd 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 - 0.1	4.8B	4B	2.26H	0.23	0.05	0.04	0.2J		2.58D	

	5.6H									
0.1 - 0.35	4.8B	1B	0.14H	0.02	<0.02	<0.02	0.13J			0.18D
	5.5H									
0.35 - 0.6	5B	1B	0.16H	0.03	0.02	<0.02	0.06J			0.22D
	5.7H									
0.9 - 1.2	4.8B	1B	0.29H	0.13	0.04	0.02	0.08J			0.48D
	5.4H									

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 - 0.1		1.17D		99B	0.055E						1.3
2.1											
0.1 - 0.35		0.19D		38B	0.01E						1.7
1.3											
0.35 - 0.6		0.08D		12B	0.006E						2
3.3											
0.9 - 1.2		0.06D		17B	0.011E						0.8
8											

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
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
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
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_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)