Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **1579** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	10/02/94	**Elevation:**	285 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6284640 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	540530 Datum: AGD84	**Drainage:**	Imperfectly 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:	Level plain <9m <1%	**Pattern Type:**	Alluvial plain
Morph. Type:	Flat	**Relief:**	1 metres
Elem. Type:	Plain	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition Loose

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

Soil Classification

Australian Soil Classification:
Eutrophic Mesonatric Brown Sodosol

ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Db3.22
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

A11 0 - 0.08 m Very dark grey (10YR3/1-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Dry; Loose consistence; Water repellent; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Abrupt, Smooth change to -

A12 0.08 - 0.25 m Yellowish brown (10YR5/4-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Dry; Weak consistence; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Clear change to -

A2 0.25 - 0.37 m Yellowish brown (10YR5/4-Moist); , 0-0% ; Clayey fine sand; Massive grade of structure; Dry; Weak consistence; Field pH 7 (Raupach); Common, very fine (0-1mm) roots; Abrupt change to -

B2 0.37 - 0.85 m Dark yellowish brown (10YR4/6-Moist); , 0-0% ; Fine sandy light clay; Moderate grade of structure; Dry; Strong consistence; Field pH 8 (Raupach); Few, very fine (0-1mm) roots; Gradual change to -

C1 0.85 - 1.3 m Dark yellowish brown (10YR4/6-Moist); Mottles, 2.5Y62, 10-20% , 15-30mm, Distinct; Clay loam, fine sandy; Massive grade of structure; Moderately moist; Strong consistence; Field pH 8 (Raupach);

C2 1.3 - 1.4 m Dark yellowish brown (10YR4/6-Moist); , 0-0% ; Coarse sand; Massive grade of structure; Moist; Loose consistence;

Morphological Notes

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 - 0.08	5.2B 5.9H 5.5B	24B	9.5H	2.2	0.2	0.75	0.05J		12.65D	
0 - 0.1	5.4B 5.8H	39B								
0 - 0.08	5.2B 5.9H 5.5B	24B	9.5H	2.2	0.2	0.75	0.05J		12.65D	
0 - 0.08	5.2B 5.9H 5.5B	24B	9.5H	2.2	0.2	0.75	0.05J		12.65D	
0.08 - 0.25	4.8B 5.5H	30B	2.1H	1.1	0.06	0.5	0.1J		3.76D	
0.08 - 0.25	4.8B 5.5H	30B	2.1H	1.1	0.06	0.5	0.1J		3.76D	
0.15 - 0.25	5.1B									
0.25 - 0.37	5.7B 6.4H	26B	0.99H	0.86	0.05	0.42	0.02J		2.32D	
0.25 - 0.37	5.7B 6.4H	26B	0.99H	0.86	0.05	0.42	0.02J		2.32D	
0.37 - 0.57	6B 6.3H	170B	3.2H	6.5	0.14	1.7	0.02J		11.54D	
0.37 - 0.57	6B 6.3H	170B	3.2H	6.5	0.14	1.7	0.02J		11.54D	
0.4 - 0.5	6.3B									
0.57 - 0.85	7.1B 7.6H	140B	2.8A	6.6	0.15	2.6			12.15D	
0.57 - 0.85	7.1B 7.6H	140B	2.8A	6.6	0.15	2.6			12.15D	
0.85 - 1.3	7B 7.2H	410B	3.4A	8.1	0.1	1.4			13D	
0.85 - 1.3	7B 7.2H	410B	3.4A	8.1	0.1	1.4			13D	
1.3 - 1.4	7B 7.1H	780B	3.2A	6	0.1	1.2			10.5D	
1.3 - 1.4	7B 7.1H	780B	3.2A	6	0.1	1.2			10.5D	

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 - 0.08		3.98D		230B	0.313E						7.8	4.6
0 - 0.1		2.86D		190B	0.214E							
0 - 0.08		3.98D		230B	0.313E						7.8	4.6
0 - 0.08		3.98D		230B	0.313E						7.8	4.6
0.08 - 0.25		0.62D		68B	0.046E						6.6	6.8
0.08 - 0.25		0.62D		68B	0.046E						6.6	6.8
0.15 - 0.25												
0.25 - 0.37		0.18D		52B	0.017E						5.8	5.3
0.25 - 0.37		0.18D		52B	0.017E						5.8	5.3

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0.37 - 0.57	0.26D	42B	0.002E		5.1
40					
0.37 - 0.57	0.26D	42B	0.002E		5.1
40					
0.4 - 0.5					
0.57 - 0.85	0.11D	36B	0.009E		3.8
31.9					
0.57 - 0.85	0.11D	36B	0.009E		3.8
31.9					
0.85 - 1.3	0.11D	30B	0.006E		3.9
24.7					
0.85 - 1.3	0.11D	30B	0.006E		3.9
24.7					
1.3 - 1.4	0.13D	22B	0.004E		0
22					
1.3 - 1.4	0.13D	22B	0.004E		0
22					

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
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
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
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
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)