Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **2312** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	28/02/95	**Elevation:**	330 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6265130 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	542670 Datum: AGD84	**Drainage:**	Moderately 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:	Upper-slope	**Relief:**	20 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	3 %	**Aspect:**	225 degrees

Surface Soil Condition Soft

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

Soil Classification

Australian Soil Classification:
Basic Paralithic Bleached-Orthic Tenosol

Mapping Unit: N/A
Principal Profile Form: Uc2.21
Great Soil Group: N/A

ASC Confidence:
All necessary analytical data are available.

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

Surface Coarse 2-10%, medium gravelly, 6-20mm, angular, Quartz; 2-10%, , rounded, Dolerite

Profile

A1 0 - 0.17 m Very dark grey (10YR3/1-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Dry; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; 10-20%, fine gravelly, 2-6mm, angular, Granite, coarse fragments; Field pH 5.5 (Raupach); Many, very fine (0-1mm) roots; Abrupt, Smooth change to -

A21 0.17 - 0.3 m Brown (10YR5/3-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; Moderately moist; 10-20%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; 10-20%, medium gravelly, 6-20mm, subangular, Granite, coarse fragments; 2-10%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Clear change to -

A22e 0.3 - 0.4 m Light yellowish brown (10YR6/4-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Moderately moist; 20-50%, fine gravelly, 2-6mm, subangular, Granite, coarse fragments; 10-20%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Clear change to -

B2w 0.4 - 0.55 m Brownish yellow (10YR6/6-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Dry; 20-50%, fine gravelly, 2-6mm, angular, Granite, coarse fragments; 2-10%, medium gravelly, 6-20mm, angular, Granite, coarse fragments; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; Abrupt, Wavy change to -

C 0.55 - 0.9 m Yellowish brown (10YR5/6-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; Dry; 20-50%, fine gravelly, 2-6mm, angular, Granite, coarse fragments; 20-50%, medium gravelly, 6-20mm, angular, Granite, coarse fragments; Field pH 6.5 (Raupach);

Morphological Notes

C Weathered granite

Observation Notes

Site Notes

water seeping into pit below 110 cm

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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	4.5B 5.2H 4.4B 4.5B 5.2H	7B 10B	3.6H	0.5	0.13	0.08	0.43J		4.31D	
0 - 0.1	4.5B 5.2H 4.4B 4.5B 5.2H	7B 10B	3.6H	0.5	0.13	0.08	0.43J		4.31D	
0 - 0.1	4.5B 5.2H 4.4B 4.5B 5.2H	7B 10B	3.6H	0.5	0.13	0.08	0.43J		4.31D	
0 - 0.1	4.5B 5.2H 4.4B 4.5B 5.2H	7B 10B	3.6H	0.5	0.13	0.08	0.43J		4.31D	
0 - 0.1	4.5B 5.2H 4.4B 4.5B 5.2H	7B 10B	3.6H	0.5	0.13	0.08	0.43J		4.31D	
0.1 - 0.17	4.6B 5.7H	2B	2.5H	0.3	0.08	0.03	0.28J		2.91D	
0.1 - 0.17	4.6B 5.7H	2B	2.5H	0.3	0.08	0.03	0.28J		2.91D	
0.17 - 0.3	4.8B 5.8H	2B	1.4H	0.23	0.06	0.05	0.1J		1.74D	
0.17 - 0.3	4.8B 5.8H	2B	1.4H	0.23	0.06	0.05	0.1J		1.74D	
0.2 - 0.3	4.6B									
0.3 - 0.4	5.3B 6.4H	2B	1.6H	0.36	0.05	0.06	<0.02J		2.07D	
0.3 - 0.4	5.3B 6.4H	2B	1.6H	0.36	0.05	0.06	<0.02J		2.07D	
0.4 - 0.55	5.6B 6.6H	2B	1.7A	0.63	0.06	0.16			2.55D	
0.4 - 0.55	5.6B 6.6H	2B	1.7A	0.63	0.06	0.16			2.55D	
0.4 - 0.55	5.6B 6.6H	2B	1.7A	0.63	0.06	0.16			2.55D	
0.4 - 0.5	5.5B									

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 - 0.1		1.34D		140B	0.125E						8.1	5.3

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	1.5D	180B	0.132E	
0 - 0.1	1.34D	140B	0.125E	8.1
5.3				
	1.5D	180B	0.132E	
0 - 0.1	1.34D	140B	0.125E	8.1
5.3				
	1.5D	180B	0.132E	
0 - 0.1	1.34D	140B	0.125E	8.1
5.3				
	1.5D	180B	0.132E	
0 - 0.1	1.34D	140B	0.125E	8.1
5.3				
	1.5D	180B	0.132E	
0.1 - 0.17	0.6D	80B	0.044E	7.1
5.3				
0.1 - 0.17	0.6D	80B	0.044E	7.1
5.3				
0.17 - 0.3	0.19D	42B	0.021E	6.4
4.6				
0.17 - 0.3	0.19D	42B	0.021E	6.4
4.6				
0.2 - 0.3				
0.3 - 0.4	0.12D	29B	0.013E	7.7
4				
0.3 - 0.4	0.12D	29B	0.013E	7.7
4				
0.4 - 0.55	0.1D	30B	0.013E	8.1
4.7				
0.4 - 0.55	0.1D	30B	0.013E	8.1
4.7				
0.4 - 0.55	0.1D	30B	0.013E	8.1
4.7				
0.4 - 0.5				

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
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)