Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0560** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	20/11/92	**Elevation:**	278 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6267220 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	481570 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 low hills 30-90m 3-10%	**Pattern Type:**	Low hills
Morph. Type:	Upper-slope	**Relief:**	40 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	2 %	**Aspect:**	0 degrees

Surface Soil Condition Firm

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

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
Ferric Magnesic Brown Kandosol **Principal Profile Form:** Uc1.23
ASC Confidence: **Great Soil Group:** N/A
All necessary analytical data are available.

Site Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Surface Coarse 20-50%, medium gravelly, 6-20mm, rounded, ; No surface coarse fragments

Profile

A1 0 - 0.05 m Black (10YR2/1-Moist); , 0-0% ; Fine sand; Single grain grade of structure; Moist; Loose consistence; 20-50%, fine gravelly, 2-6mm, rounded, , coarse fragments; Strongly water repellent, "Field pH 6 (Raupach); Abundant, fine (1-2mm) roots; Abrupt, Smooth change to -

A2 0.05 - 0.8 m Strong brown (7.5YR4/6-Moist); , 0-0% ; Single grain grade of structure; Moist; Loose consistence; 50-90%, fine gravelly, 2-6mm, rounded, , coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Gradual, Smooth change to -

B2t 0.8 - 1.5 m Yellowish brown (10YR5/8-Moist); Mottles, 10R46, 0-2% , 15-30mm, Distinct; Massive grade of structure; Moderately moist; Very weak consistence; 50-90%, fine gravelly, 2-6mm, rounded, , coarse fragments; Field pH 7 (Raupach); Common, fine (1-2mm) roots;

Morphological Notes

A2 With fine sandy loam
B2t with medium sandy clay loam

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m				Cmol (+)/kg				%

0 - 0.05	4.9B	19B	17.8H	4.95	0.92	0.5	0.24J			24.17D	
	5.5H										
0 - 0.1	5B	9B									
	5.8H										
	5B										
	5.8H										
0 - 0.05	4.9B	19B	17.8H	4.95	0.92	0.5	0.24J			24.17D	
	5.5H										
0 - 0.1	5B	9B									
	5.8H										
	5B										
	5.8H										
0 - 0.1	5B	9B									
	5.8H										
	5B										
	5.8H										
0 - 0.1	5B	9B									
	5.8H										
	5B										
	5.8H										
0.05 - 0.4	5.1B	4B	2.77H	1.6	0.24	0.12	0.16J			4.73D	
	6.1H										
0.05 - 0.4	5.1B	4B	2.77H	1.6	0.24	0.12	0.16J			4.73D	
	6.1H										
0.05 - 0.4	5.1B	4B	2.77H	1.6	0.24	0.12	0.16J			4.73D	
	6.1H										
0.4 - 0.8	5.4B	3B	1.45H	1.8	0.29	0.14	0.03J			3.68D	
	6.5H										
0.4 - 0.8	5.4B	3B	1.45H	1.8	0.29	0.14	0.03J			3.68D	
	6.5H										
0.4 - 0.8	5.4B	3B	1.45H	1.8	0.29	0.14	0.03J			3.68D	
	6.5H										
0.8 - 1.15	5.6B	4B	0.11H	2.73	0.12	0.21	0.02J			3.17D	
	6.4H										
0.8 - 1.15	5.6B	4B	0.11H	2.73	0.12	0.21	0.02J			3.17D	
	6.4H										
0.8 - 1.15	5.6B	4B	0.11H	2.73	0.12	0.21	0.02J			3.17D	
	6.4H										
1.15 - 1.5	5.6B	4B	0.04H	2.5	0.06	0.22	0.02J			2.82D	
	6.4H										
1.15 - 1.5	5.6B	4B	0.04H	2.5	0.06	0.22	0.02J			2.82D	
	6.4H										
1.15 - 1.5	5.6B	4B	0.04H	2.5	0.06	0.22	0.02J			2.82D	
	6.4H										

Depth	**CaCO3**	**Organic C**	**Avail. P**	**Total P**	**Total N**	**Total K**	**Bulk Density**	**GV**	**Particle CS**	**Size FS**	**Analysis Silt**
		Clay									
m	**%**	**%**	**mg/kg**	**%**	**%**	**%**	**Mg/m3**			**%**	
0 - 0.05		11.82D		700B	0.684E						3.8
2.4											

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0 - 0.1	5.28D	340B	0.291E		
	5.28D	340B	0.291E		
0 - 0.05	11.82D	700B	0.684E		3.8
2.4					
0 - 0.1	5.28D	340B	0.291E		
	5.28D	340B	0.291E		
0 - 0.1	5.28D	340B	0.291E		
	5.28D	340B	0.291E		
0 - 0.1	5.28D	340B	0.291E		
	5.28D	340B	0.291E		
0.05 - 0.4	1.2D	88B	0.067E		7.4
10.1					
0.05 - 0.4	1.2D	88B	0.067E		7.4
10.1					
0.05 - 0.4	1.2D	88B	0.067E		7.4
10.1					
0.4 - 0.8	0.48D	56B	0.034E		6.3
16.8					
0.4 - 0.8	0.48D	56B	0.034E		6.3
16.8					
0.4 - 0.8	0.48D	56B	0.034E		6.3
16.8					
0.8 - 1.15	0.33D	46B	0.027E		9.5
20.2					
0.8 - 1.15	0.33D	46B	0.027E		9.5
20.2					
0.8 - 1.15	0.33D	46B	0.027E		9.5
20.2					
1.15 - 1.5	0.3D	38B	0.021E		10
20.5					
1.15 - 1.5	0.3D	38B	0.021E		10
20.5					
1.15 - 1.5	0.3D	38B	0.021E		10
20.5					

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
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)