

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0551 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Jaki Hogstrom	Locality:	
Date Desc.:	11/11/92	Elevation:	238 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6286590 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	483300 Datum: AGD84	Drainage:	Rapidly 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:	20 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	6 %	Aspect:	270 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Basic Petroferric Sequi-Nodular Tenosol		Principal Profile Form:	Uc2.12
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, subrounded, ; 2-10%, , subrounded,

Profile

A1	0 - 0.07 m	Dark reddish brown (5YR3/2-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Dry; Loose
		consistence; 50-90%, fine gravelly, 2-6mm, subrounded, , coarse fragments; Field pH 5.5 (Raupach);
		Many, fine (1-2mm) roots; Abrupt, Smooth change to -
A21	0.07 - 0.3 m	Yellowish red (5YR4/6-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Dry; Loose
		consistence; 50-90%, fine gravelly, 2-6mm, subrounded, , coarse fragments; Field pH 6 (Raupach);
		Common, fine (1-2mm) roots; Clear, Wavy change to -
A22	0.3 - 0.7 m	Strong brown (7.5YR4/6-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Dry; Loose
		consistence; 50-90%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 7 (Raupach);
		Common, fine (1-2mm) roots; Sharp, Tongued change to -
B2	0.7 - 1.3 m	Strong brown (7.5YR5/8-Moist); , 0-0% ; Massive grade of structure; Dry; Very strong
		consistence; 50-90%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 7 (Raupach);
		Clear change to -
C	1.3 - 1.5 m	Strong brown (7.5YR5/8-Moist); Mottles, 2.5YR6/8, 20-50% , 15-30mm, Distinct; Clay loam, sandy;
		consistence; 2-10%, fine gravelly, 2-6mm, subrounded, , coarse fragments; Field pH 6.5 (Raupach);

Morphological Notes

B2 Ferricrete - very hard cemented gravel. With medium sandy clay loam.

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Na Cmol (+)/kg				%
0 - 0.07	5.2B 6H	12B	8.31H	1.3	0.34	0.28	0.12J		10.23D	
0 - 0.1	5.1B 5.9H	8B								
0 - 0.07	5.2B 6H	12B	8.31H	1.3	0.34	0.28	0.12J		10.23D	
0 - 0.11	4.91B									
0 - 0.1	5.1B 5.9H	8B								
0.07 - 0.3	5.1B 6.2H	2B	1.71H	0.84	0.12	0.04	0.11J		2.71D	
0.07 - 0.3	5.1B 6.2H	2B	1.71H	0.84	0.12	0.04	0.11J		2.71D	
0.07 - 0.3	5.1B 6.2H	2B	1.71H	0.84	0.12	0.04	0.11J		2.71D	
0.16 - 0.26	4.99B									
0.3 - 0.7	5.5B 6.6H	2B	1.07A	1.2	0.12	0.19			2.58D	
0.3 - 0.7	5.5B 6.6H	2B	1.07A	1.2	0.12	0.19			2.58D	
0.3 - 0.7	5.5B 6.6H	2B	1.07A	1.2	0.12	0.19			2.58D	
0.41 - 0.51	5.24B									
0.7 - 1.3	5.6B 6.6H	3B	0.87A	1.36	0.07	0.3			2.6D	
0.7 - 1.3	5.6B 6.6H	3B	0.87A	1.36	0.07	0.3			2.6D	
0.7 - 1.3	5.6B 6.6H	3B	0.87A	1.36	0.07	0.3			2.6D	
1.3 - 1.5	5.7B 6.1H	4B	0.59H	1.82	0.02	0.21	0.02J		2.64D	
1.3 - 1.5	5.7B 6.1H	4B	0.59H	1.82	0.02	0.21	0.02J		2.64D	
1.3 - 1.5	5.7B 6.1H	4B	0.59H	1.82	0.02	0.21	0.02J		2.64D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt
0 - 0.07		4.36D		280B	0.238E				4.4
4.2									
0 - 0.1		5.24D		280B	0.255E				
0 - 0.07		4.36D		280B	0.238E				4.4
4.2									
0 - 0.11									
0 - 0.1		5.24D		280B	0.255E				
0.07 - 0.3		0.79D		62B	0.039E				4.6
12									
0.07 - 0.3		0.79D		62B	0.039E				4.6
12									
0.07 - 0.3		0.79D		62B	0.039E				4.6
12									
0.16 - 0.26									
0.3 - 0.7		0.33D		48B	0.022E				4
12.2									
0.3 - 0.7		0.33D		48B	0.022E				4
12.2									

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0.3 - 0.7 12.2	0.33D	48B	0.022E	4
0.41 - 0.51				
0.7 - 1.3 5.4	0.21D	35B	0.014E	2.7
0.7 - 1.3 5.4	0.21D	35B	0.014E	2.7
0.7 - 1.3 5.4	0.21D	35B	0.014E	2.7
1.3 - 1.5 10.9	0.13D	25B	0.01E	6.6
1.3 - 1.5 10.9	0.13D	25B	0.01E	6.6
1.3 - 1.5 10.9	0.13D	25B	0.01E	6.6

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_CMCR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA salts	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
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 Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
	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)