

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0155 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 27/03/92	Elevation: 270 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6255250 AMG zone: 50	Runoff: No Data
Easting/Lat.: 480080 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: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type: Open depression (vale)	Relief: 20 metres
Elem. Type: Drainage depression	Slope Category: No Data
Slope: 2 %	Aspect: 270 degrees

Surface Soil Condition Firm

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

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Ferric Subnatric Yellow Sodosol	Principal Profile Form: Dy4.62
ASC Confidence:	Great Soil Group: N/A
All necessary analytical data are available.	

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

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A1 0 - 0.05 m mm, Platy; Dry;	Dark brown (7.5YR3/2-Moist); , 0-0% ; Clayey fine sand; Weak grade of structure, 5-10 Field pH 5 (Raupach); Many, fine (1-2mm) roots; Abrupt, Smooth change to -
A2 0.05 - 0.3 m Dry; Field pH 6	Yellowish brown (10YR5/4-Moist); , 0-0% ; Fine sandy loam; Massive grade of structure; (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -
B21 0.3 - 0.4 m Dry; 50-90%, 100 %), 2mm) roots; Clear,	Yellowish brown (10YR5/6-Moist); , 0-0% ; Sandy light clay; Massive grade of structure; medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; Very many (50 - Ferruginous, Very coarse (20 - 60 mm), Nodules; Field pH 6 (Raupach); Few, fine (1- Smooth change to -
B22 0.4 - 0.75 m fine gravelly, Coarse (6 - 20 mm),	Olive yellow (2.5Y6/6-Moist); , 0-0% ; Light clay; Massive grade of structure; Dry; 20-50%, 2-6mm, subrounded, Ironstone, coarse fragments; Many (20 - 50 %), Ferruginous, Nodules; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B23 0.75 - 0.9 m 90%, medium Ferruginous, Very Smooth	Brownish yellow (10YR6/8-Moist); , 0-0% ; Light clay; Massive grade of structure; Dry; 50- gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; Many (20 - 50 %), coarse (20 - 60 mm), Nodules; Field pH 6 (Raupach); Few, medium (2-5mm) roots; Clear, change to -
C 0.9 - 1.3 m Massive Common (10 - 20 1mm) roots;	Light grey (10YR7/2-Moist); Mottles, 10YR6/8, 20-50% , 15-30mm, Distinct; Medium clay; grade of structure; Dry; 20-50%, fine gravelly, 2-6mm, rounded, , coarse fragments; %, Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 8 (Raupach); Few, very fine (0-

Morphological Notes

B21 Very slightly dispersive
 B22 Very slightly dispersive

Observation Notes**Site Notes**

Soil Pit in lower sections of Wattle Creek catchment

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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				Cmol (+)/kg				%
0 - 0.05	4.9B 5.7H	20B	5.26H	2.28	0.13	0.4	0.21J		8.07D	
0 - 0.1	5B 5.8H 5B	13B								
0 - 0.05	5.8H 4.9B 5.7H	20B	5.26H	2.28	0.13	0.4	0.21J		8.07D	
0 - 0.1	5B 5.8H 5B	13B								
0 - 0.1	5.8H 5B 5.8H 5B	13B								
0 - 0.1	5.8H 5B 5.8H 5B	13B								
0.05 - 0.3	5.8H 5.2B 6.2H	4B	1.22H	1	0.02	0.17	0.04J		2.41D	
0.05 - 0.3	5.2B 6.2H	4B	1.22H	1	0.02	0.17	0.04J		2.41D	
0.3 - 0.4	5.7B 6.7H	5B	1.69A	2	0.02	0.34			4.05D	
0.3 - 0.4	5.7B 6.7H	5B	1.69A	2	0.02	0.34			4.05D	
0.4 - 0.75	6.2B 6.5H	31B	1.76H	4.16	<0.02	0.81	0.03J		6.74D	
0.4 - 0.75	6.2B 6.5H	31B	1.76H	4.16	<0.02	0.81	0.03J		6.74D	
0.75 - 0.9	6.3B 6.7H	42B	1.49A	4.69	<0.02	0.96			7.15D	
0.75 - 0.9	6.3B 6.7H	42B	1.49A	4.69	<0.02	0.96			7.15D	
0.9 - 1.3	6.9B 7.2H	160B	0.92A	3.74	0.02	0.63			5.31D	
0.9 - 1.3	6.9B 7.2H	160B	0.92A	3.74	0.02	0.63			5.31D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.05		3.72D		270B	0.302E						7.4
10.4											
0 - 0.1		4.42D		350B	0.364E						
		4.42D		350B	0.364E						
0 - 0.05		3.72D		270B	0.302E						7.4

10.4
0 - 0.1

4.42D
4.42D

350B
350B

0.364E
0.364E

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0 - 0.1	4.42D	350B	0.364E	
	4.42D	350B	0.364E	
0 - 0.1	4.42D	350B	0.364E	
	4.42D	350B	0.364E	
0.05 - 0.3	0.41D	80B	0.035E	2.1
14.2				
0.05 - 0.3	0.41D	80B	0.035E	2.1
14.2				
0.3 - 0.4	0.33D	98B	0.037E	2.1
29.6				
0.3 - 0.4	0.33D	98B	0.037E	2.1
29.6				
0.4 - 0.75	0.25D	87B	0.023E	3.3
50.9				
0.4 - 0.75	0.25D	87B	0.023E	3.3
50.9				
0.75 - 0.9	0.18D	70B	0.012E	5.2
53.9				
0.75 - 0.9	0.18D	70B	0.012E	5.2
53.9				
0.9 - 1.3	0.09D	46B	0.005E	1.2
47				
0.9 - 1.3	0.09D	46B	0.005E	1.2
47				

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)

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P106001000 600 to 1000u particle size analysis, (method not recorded)