

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0149 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	10/03/93	Elevation:	350 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6250810 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	493700 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:	5 %	Aspect:	45 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Ferric Mesotrophic Yellow Chromosol	Principal Profile Form:	Dy2.11
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 10-20%, medium gravelly, 6-20mm, subrounded, ; 10-20%, , subrounded,

Profile

A1 0 - 0.04 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sandy loam; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Dry; Firm consistence; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; 2-10%, coarse gravelly, 20-60mm, subrounded, , coarse fragments;
B1 0.04 - 0.15 m	Brownish yellow (10YR6/8-Moist); , 0-0% ; Clay loam, sandy; Weak grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Dry; Very firm consistence; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Abrupt, Smooth change to -
B2t 0.15 - 0.4 m	Yellow (10YR7/8-Moist); Mottles, 2.5YR4/8, 2-10% , 5-15mm, Faint; Light medium clay; Weak grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Dry; Very firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, Granite, coarse fragments; 2-10%, fine gravelly, 2-6mm, subrounded, , coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Gradual, Wavy change to -
C 0.4 - 1.1 m	Yellow (10YR7/8-Moist); , 0-0% ; Sandy light clay; Massive grade of structure; Dry; Weak consistence; 10-20%, fine gravelly, 2-6mm, subangular, Granite, coarse fragments; Field pH 6 (Raupach); Few, fine (1-2mm) roots; Abrupt change to -
R 1.1 - m	Rock

Morphological Notes

C Weathered granite
R Granite

Observation Notes

Site Notes

Wattle Creek Catchment soil pit - not described at same time as other pits - granite outcrop 30m downslope.

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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 - 0.04	5.3B 6H	12B	7.08H	2.07	0.56	0.18	0.1J		9.89D	
0 - 0.04	5.3B 6H	12B	7.08H	2.07	0.56	0.18	0.1J		9.89D	
0 - 0.1	5B 5.7H	14B								
0 - 0.1	5B 5.7H	14B								
0.04 - 0.15	5.4B 6.5H	3B	2.98H	1.36	0.41	0.1	0.04J		4.85D	
0.04 - 0.15	5.4B 6.5H	3B	2.98H	1.36	0.41	0.1	0.04J		4.85D	
0.15 - 0.4	5.7B 6.5H	4B	1.33H	1.35	0.26	0.11	0.02J		3.05D	
0.15 - 0.4	5.7B 6.5H	4B	1.33H	1.35	0.26	0.11	0.02J		3.05D	
0.4 - 0.8	5B 5.4H	3B	0.22H	0.68	0.08	0.04	0.02J		1.02D	
0.4 - 0.8	5B 5.4H	3B	0.22H	0.68	0.08	0.04	0.02J		1.02D	

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 - 0.04		4.93D		210B	0.302E				13.5
15.1									
0 - 0.04		4.93D		210B	0.302E				13.5
15.1									
0 - 0.1		3.58D		160B	0.229E				
0 - 0.1		3.58D		160B	0.229E				
0.04 - 0.15		4.53D		74B	0.09E				11.6
39.2									
0.04 - 0.15		4.53D		74B	0.09E				11.6
39.2									
0.15 - 0.4		0.59D		37B	0.039E				9.9
50.1									
0.15 - 0.4		0.59D		37B	0.039E				9.9
50.1									
0.4 - 0.8		0.08D		20B	0.009E				5.3
22.1									
0.4 - 0.8		0.08D		20B	0.009E				5.3
22.1									

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	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

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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)