

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0069 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 24/10/91	Elevation: 319 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6255540 AMG zone: 50	Runoff: No Data
Easting/Lat.: 574470 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: Mid-slope	Relief: 12 metres
Elem. Type: Hillslope	Slope Category: No Data
Slope: 1 %	Aspect: 180 degrees

Surface Soil Condition Soft

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Eutrophic Mottled-Mesonatric Grey Sodosol	Principal Profile Form: Dg4.43
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 No surface coarse fragments; No surface coarse fragments

Profile

A11 0 - 0.07 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Dry; 0-2%,
(2-5mm) roots;	Quartz, coarse fragments; Water repellent; Field pH 6.5 (Raupach); Abundant, medium
	Abrupt change to -
A12 0.07 - 0.2 m	Brown (10YR4/3-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Dry; 2-10%, Quartz,
roots; Abrupt	coarse fragments; Water repellent; Field pH 7 (Raupach); Abundant, very fine (0-1mm)
	change to -
A2e 0.2 - 0.24 m	Light grey (10YR7/2-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure; Dry; 20-50%,
change to -	Quartz, coarse fragments; Field pH 7.5 (Raupach); Many, fine (1-2mm) roots; Sharp
B2t 0.24 - 0.57 m	Light grey (10YR7/2-Moist); Mottles, 5YR6/8, 20-50% , 5-15mm, Distinct; Sandy medium clay; Strong
(Raupach); Common,	grade of structure, 200-500 mm, Columnar; Rough-ped fabric; Dry; Field pH 7.5
	medium (2-5mm) roots; Clear change to -
C 0.57 - 1.5 m	Very pale brown (10YR8/3-Moist); , 0-0% ; Coarse sandy loam; Massive grade of structure; Dry; 20-
	50%, Quartz, coarse fragments; Field pH 8.5 (Raupach); Few, medium (2-5mm) roots;

Morphological Notes

A11	F A QZ
A12	F,C A
A2e	M,C A QZ & R GC
B2t	MOST ROOTS STOP TOP OF C
C	F QZ

Observation Notes

Site Notes

as for site 28. Eutrophic variant.

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.07	5.4B 6.2H	10B	7.41H	2.56	0.23	0.32	0.02J		10.52D	
0 - 0.1	4.7B 5.6H	10B								
0 - 0.07	5.4B 6.2H	10B	7.41H	2.56	0.23	0.32	0.02J		10.52D	
0 - 0.1	4.7B 5.6H	10B								
0.07 - 0.2	5.5B 6.5H	4B	2.2H	0.95	0.1	0.11	<0.02J		3.36D	
0.07 - 0.2	5.5B 6.5H	4B	2.2H	0.95	0.1	0.11	<0.02J		3.36D	
0.2 - 0.24	5.8B 6.7H	2B	0.6A	0.4	0.07	0.06			1.13D	
0.2 - 0.24	5.8B 6.7H	2B	0.6A	0.4	0.07	0.06			1.13D	
0.2 - 0.3	5.8B 6.9H	13B	1.86A	2.83	0.34	0.85			5.88D	
0.2 - 0.3	5.8B 6.9H	13B	1.86A	2.83	0.34	0.85			5.88D	
0.24 - 0.57	6B 6.9H	23B	2.3A	4.17	0.29	1.66			8.42D	
0.24 - 0.57	6B 6.9H	23B	2.3A	4.17	0.29	1.66			8.42D	
0.3 - 0.5	6.1B 6.8H	55B	2.77A	6.02	0.98	2.18			11.95D	
0.3 - 0.5	6.1B 6.8H	55B	2.77A	6.02	0.98	2.18			11.95D	
0.5 - 0.6	6.6B 7.1H	120B	3.75A	10.19	1.04	3.25			18.23D	
0.5 - 0.6	6.6B 7.1H	120B	3.75A	10.19	1.04	3.25			18.23D	
0.57 - 1.5	8.5B 9.2H	98B	2.22E	6.73	0.27	4.39		12B	13.61D	36.58
0.57 - 1.5	8.5B 9.2H	98B	2.22E	6.73	0.27	4.39		12B	13.61D	36.58
0.57 - 1.5	8.5B 9.2H	98B	2.22E	6.73	0.27	4.39		12B	13.61D	36.58

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV CS	Size FS	Analysis Silt
0 - 0.07 6.4		3.37D		240B						4
0 - 0.1		2.58D		290B	0.181E					
0 - 0.07 6.4		3.37D		240B						4
0 - 0.1		2.58D		290B	0.181E					
0.07 - 0.2 4.3		0.71D		67B						3.2
0.07 - 0.2 4.3		0.71D		67B						3.2
0.2 - 0.24 1.8		0.13D		24B						3.2
0.2 - 0.24 1.8		0.13D		24B						3.2

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0.2 - 0.3				67.5l	9
23.5					
0.2 - 0.3				67.5l	9
23.5					
0.24 - 0.57	0.32D	26B			6.2
33.3					
0.24 - 0.57	0.32D	26B			6.2
33.3					
0.3 - 0.5				52l	5
43					
0.3 - 0.5				52l	5
43					
0.5 - 0.6				52.5l	16.5
31					
0.5 - 0.6				52.5l	16.5
31					
0.57 - 1.5	<2C 0.06D	21B			9
19.4					
0.57 - 1.5	<2C 0.06D	21B			9
19.4					
0.57 - 1.5	<2C 0.06D	21B			9
19.4					

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	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
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15C1_CA pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
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)

19B_NR	Calcium Carbonate (CaCO ₃) - 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

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P10_NR_S	Sand (%) - 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)