

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 1580 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 10/02/94
Map Ref.:
Northing/Long.: 6284660 AMG zone: 50
Easting/Lat.: 541120 Datum: AGD84
Locality:
Elevation: 289 metres
Rainfall: No Data
Runoff: No Data
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: 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
Elem. Type: Footslope
Slope: 1 %
Relief: 10 metres
Slope Category: No Data
Aspect: 270 degrees

Surface Soil Condition Loose

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

Soil Classification

Australian Soil Classification: N/A
ASC Confidence: Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Dy2.53
Great Soil Group: N/A

Site Cultivation. Rainfed

Vegetation:

Surface Coarse 10-20%, medium gravelly, 6-20mm, rounded, ; No surface coarse fragments

Profile

A1p	0 - 0.1 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Sandy loam; Weak grade of structure; Dry; Firm consistence;
		20-50%, medium gravelly, 6-20mm, rounded, , coarse fragments; Field pH 6 (Raupach);
Many, very fine		(0-1mm) roots; Abrupt, Wavy change to -
A3	0.1 - 0.15 m	Brown (10YR4/3-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Dry; Firm consistence;
		20-50%, medium gravelly, 6-20mm, rounded, , coarse fragments; Field pH 7.5 (Raupach);
Common, very		fine (0-1mm) roots;
B2t	0.15 - 1.2 m	Yellowish brown (10YR5/6-Moist); Mottles, 2.5YR46, 2-10% , 5-15mm, Distinct; Medium clay; Weak
		grade of structure; Rough-ped fabric; Dry; Strong consistence; Soil matrix is Slightly
calcareous; Field		pH 9 (Raupach); Few, very fine (0-1mm) roots;

Morphological Notes

A3 Absent in some parts of the pit
 B2t Roots around peds only E.C. at 15-65cm E.C. at 65-120cm

Observation Notes

Site Notes

Moojebing Soil pit 5 (Ian Garstone)

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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 - 0.1	5.6B	33B	7.4H	2.6	0.38	0.33	0.04J		10.71D	

	6.3H	13B								
	5.4B									
	6.2H									
0 - 0.1	5.4B									
	5.6B	33B	7.4H	2.6	0.38	0.33	0.04J		10.71D	
	6.3H	13B								
	5.4B									
	6.2H									
0 - 0.1	5.4B									
	5.6B	33B	7.4H	2.6	0.38	0.33	0.04J		10.71D	
	6.3H	13B								
	5.4B									
	6.2H									
0 - 0.1	5.4B									
	5.6B	33B	7.4H	2.6	0.38	0.33	0.04J		10.71D	
	6.3H	13B								
	5.4B									
	6.2H									
0 - 0.1	5.4B									
	5.6B	33B	7.4H	2.6	0.38	0.33	0.04J		10.71D	
	6.3H	13B								
	5.4B									
	6.2H									
0.1 - 0.15	5.4B									
	6.2B	7B	4.4A	2.2	0.21	0.32			7.13D	
	7.1H									
0.1 - 0.15	6.2B	7B	4.4A	2.2	0.21	0.32			7.13D	
	7.1H									
0.15 - 0.35	7B	21B	2.7A	3.5	0.22	0.9			7.32D	
	7.9H									
0.15 - 0.35	7B	21B	2.7A	3.5	0.22	0.9			7.32D	
	7.9H									
0.15 - 0.25	7B									
0.35 - 0.65	7.3B	33B	2.3E	2.8	0.22	1.2		9B	6.52D	13.33
	8.1H									
0.35 - 0.65	7.3B	33B	2.3E	2.8	0.22	1.2		9B	6.52D	13.33
	8.1H									
0.4 - 0.5	7.4B									
0.65 - 0.95	7.4B	75B	2.5A	4.4	0.23	1.7			8.83D	
	7.9H									
0.65 - 0.95	7.4B	75B	2.5A	4.4	0.23	1.7			8.83D	
	7.9H									
0.95 - 1.2	7.6B	120B	1.5E	3.3	0.23	2.1		8B	7.13D	26.25
	8.1H									
0.95 - 1.2	7.6B	120B	1.5E	3.3	0.23	2.1		8B	7.13D	26.25
	8.1H									

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Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size FS	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m ³		%	
0 - 0.1 14.3		2.44D		170B	0.139E					7.4
		1.94D		140B	0.117E					
0 - 0.1 14.3		2.44D		170B	0.139E					7.4
		1.94D		140B	0.117E					
0 - 0.1 14.3		2.44D		170B	0.139E					7.4
		1.94D		140B	0.117E					
0 - 0.1 14.3		2.44D		170B	0.139E					7.4
		1.94D		140B	0.117E					
0 - 0.1 14.3		2.44D		170B	0.139E					7.4
		1.94D		140B	0.117E					
0.1 - 0.15 10.6		1.01D		94B	0.047E					7.4
0.1 - 0.15 10.6		1.01D		94B	0.047E					7.4
0.15 - 0.35 39.3		0.4D		48B	0.022E					4.2
0.15 - 0.35 39.3		0.4D		48B	0.022E					4.2
0.15 - 0.25 36.7										
0.35 - 0.65 36.7	<2C	0.29D		42B	0.017E					3.9
0.35 - 0.65 36.7	<2C	0.29D		42B	0.017E					3.9
0.4 - 0.5 34.5										
0.65 - 0.95 34.5		0.28D		42B	0.014E					4.7
0.65 - 0.95 34.5		0.28D		42B	0.014E					4.7
0.95 - 1.2 36.1	<2C	0.2D		33B	0.011E					4.3
0.95 - 1.2 36.1	<2C	0.2D		33B	0.011E					4.3

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 for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_MG for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_NA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15C1_CA pretreatment for	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (Ca ²⁺ ,Mg ²⁺ ,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 (Mn ²⁺) 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)
19B_NR	Calcium Carbonate (CaCO ₃) - Not recorded
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - 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)