

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0107 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	14/11/91	Elevation:	355 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6261340 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	555510 Datum: AGD84	Drainage:	Moderately well drained

Geology

ExposureType:	Auger boring	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:	Mid-slope	Relief:	50 metres
Elem. Type:	Breakaway	Slope Category:	No Data
Slope:	8 %	Aspect:	45 degrees

Surface Soil Condition Firm

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Ferric Magnesic-Natric Red Kurosol		Principal Profile Form:	Dr5.11
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Limited clearing, for example selective logging

Vegetation:

Surface Coarse 50-90%, medium gravelly, 6-20mm, subangular, Ironstone; No surface coarse fragments

Profile

A1	0 - 0.2 m	Dark reddish brown (5YR3/4-Moist); , 0-0% ; Fine sandy loam; Weak grade of structure, 20-50 mm,
		Polyhedral; Dry; 20-50%, , coarse fragments; Many (20 - 50 %), Ferromanganiferous,
	Medium (2 -6	mm), Fragments; Strongly water repellent, "Field pH 4.5 (Raupach); Common, fine (1-
	2mm) roots;	Abrupt change to -
B21	0.2 - 0.55 m	Dark reddish brown (5YR3/4-Moist); , 0-0% ; Light medium clay; Strong grade of
	structure, 20-50 mm,	Polyhedral; Rough-ped fabric; Dry; Water repellent; Field pH 4.5 (Raupach); Common,
	fine (1-2mm)	roots; Clear change to -
B22	0.55 - 0.7 m	Red (2.5YR4/6-Moist); , 0-0% ; Medium clay; Strong grade of structure, 20-50 mm,
	Polyhedral; Smooth-	ped fabric; Dry; Field pH 4.5 (Raupach); Few, fine (1-2mm) roots; Gradual change to -
B3	0.7 - 1 m	Yellowish red (5YR5/8-Moist); Mottles, 2.5YR46, 10-20% , 0-5mm, Distinct; Light clay;
	Massive grade of	structure; Dry; Field pH 4.5 (Raupach);

Morphological Notes

A1	F,M S GC SAMPLED
B21	SAMPLED +FS
B22	SAMPLED
B3	SAMPLED

Observation Notes

Site Notes

50m downslope of breakaway - very little water soak in after rain

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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 - 0.2	4.4B	250B	1.04H	3.74	0.11	3.36	2.54J		8.25D	
	4.6H									
0 - 0.2	4.4B	250B	1.04H	3.74	0.11	3.36	2.54J		8.25D	
	4.6H									
0.2 - 0.55	4.1B	250B	0.41H	3.52	0.05	1.89	3.22J		5.87D	
	4.3H									
0.2 - 0.55	4.1B	250B	0.41H	3.52	0.05	1.89	3.22J		5.87D	
	4.3H									
0.55 - 0.7	3.9B	220B	0.21H	3.58	0.03	1.56	3.38J		5.38D	
	4.1H									
0.55 - 0.7	3.9B	220B	0.21H	3.58	0.03	1.56	3.38J		5.38D	
	4.1H									
0.7 - 1	3.7B	210B	0.09H	3.38	<0.02	1.71	1.99J		5.19D	
	3.9H									
0.7 - 1	3.7B	210B	0.09H	3.38	<0.02	1.71	1.99J		5.19D	
	3.9H									

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 - 0.2		4.08D		190B				
11.1								11
0 - 0.2		4.08D		190B				11
11.1								
0.2 - 0.55		1.72D		150B				12.8
32.1								
0.2 - 0.55		1.72D		150B				12.8
32.1								
0.55 - 0.7		1.12D		170B				15.3
42.4								
0.55 - 0.7		1.12D		170B				15.3
42.4								
0.7 - 1		0.35D		270B				21
27.8								
0.7 - 1		0.35D		270B				21
27.8								

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
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
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
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)

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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)