

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0145 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 04/12/91	Elevation: 315 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6330640 AMG zone: 50	Runoff: No Data
Easting/Lat.: 499850 Datum: AGD84	Drainage: Moderately 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: Mid-slope	Relief: 50 metres
Elem. Type: Hillslope	Slope Category: No Data
Slope: 2 %	Aspect: 0 degrees

Surface Soil Condition Firm

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

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Bleached-Mottled Natric Yellow Kurosol	Principal Profile Form: Dg4.81
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 0-2%, medium gravelly, 6-20mm, subangular, Granite; 0-2%, , subangular, Granite

Profile

A1	0 - 0.11 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Coarse sand; Massive grade of structure; Sandy
		(grains prominent) fabric; Dry; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments;
		Ferruginous, Medium (2 -6 mm), Concretions; Field pH 6 (Raupach); Abundant, fine (1-2mm) roots;
		Clear, Wavy change to -
A2e	0.11 - 0.47 m	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Loamy coarse sand; Massive grade of structure; Sandy
		(grains prominent) fabric; Dry; 20-50%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments;
		Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Field pH 5.5 (Raupach); Many,
		fine (1-2mm) roots; Abrupt, Smooth change to -
B2	0.47 - 0.56 m	Very pale brown (10YR7/4-Moist); , 10YR66, 20-50% , 15-30mm, Distinct; Coarse sandy clay loam;
		Massive grade of structure; Dry; 10-20%, fine gravelly, 2-6mm, Ironstone, coarse fragments; Few (2 - 10
		%), Ferruginous, Medium (2 -6 mm), Concretions; Field pH 5.5 (Raupach);
C	0.56 - 1.15 m	Light grey (10YR7/2-Moist); Mottles, 2.5YR48, 20-50% , 30-mm, Prominent; Light clay; Moderate grade
		of structure; Rough-ped fabric; Dry; Field pH 4.5 (Raupach);

Morphological Notes

A1	HUMIC
A2e	FEW MEDIUM QUARTZ
B2	KS>1MM VERY HARD
C	CONTAINS WEATHERED ROCK FRAGMENTS

Observation Notes

Site Notes

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Observation 1

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 - 0.11	5.1B	8B	3.25H	1.22	0.23	0.16	0.12J		4.86D	
	6H									
0 - 0.11	5.1B	8B	3.25H	1.22	0.23	0.16	0.12J		4.86D	
	6H									
0.11 - 0.47	4.4B	3B	0.16H	0.33	0.05	0.1	0.28J		0.64D	
	5.4H									
0.11 - 0.47	4.4B	3B	0.16H	0.33	0.05	0.1	0.28J		0.64D	
	5.4H									
0.47 - 0.56	4.3B	7B	0.17H	1.3	0.06	0.3	0.2J		1.83D	
	5.1H									
0.47 - 0.56	4.3B	7B	0.17H	1.3	0.06	0.3	0.2J		1.83D	
	5.1H									
0.56 - 1.15	4.1B	90B	0.2H	5.49	0.05	0.72	0.25J		6.46D	
	4.1H									
0.56 - 1.15	4.1B	90B	0.2H	5.49	0.05	0.72	0.25J		6.46D	
	4.1H									

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 - 0.11		1.86D		97B	0.117E			6
	5.1							
0 - 0.11		1.86D		97B	0.117E			6
	5.1							
0.11 - 0.47		0.21D		28B	0.015E			5.6
	4.7							
0.11 - 0.47		0.21D		28B	0.015E			5.6
	4.7							
0.47 - 0.56		0.17D		20B	0.011E			7.4
	18.8							
0.47 - 0.56		0.17D		20B	0.011E			7.4
	18.8							
0.56 - 1.15		0.18D		14B	0.011E			9.2
	43							
0.56 - 1.15		0.18D		14B	0.011E			9.2
	43							

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
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9H1	Anion storage capacity

P10_1m2m 1000 to 2000u particle size analysis, (method not recorded)

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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)