Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0559** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 20/11/92
Map Ref.:
Northing/Long.: 6267340 AMG zone: 50
Easting/Lat.: 482310 Datum: AGD84
Locality:
Elevation: 270 metres
Rainfall: No Data
Runoff: No Data
Drainage: Well 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: Undulating low hills 30-90m 3-10%
Pattern Type: Low hills

Morph. Type: Crest
Elem. Type: Summit surface
Slope: 2 %
Relief: 30 metres
Slope Category: No Data
Aspect: 270 degrees

Surface Soil Condition Firm

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

Soil Classification

Australian Soil Classification:
Mottled-Sodic Mesotrophic Brown Chromosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy5.22
Great Soil Group: N/A

Site Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A1 0 - 0.1 m Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Clayey sand; Weak grade of structure, 10-20 mm, Subangular blocky; Sandy (grains prominent) fabric; Moist; Loose consistence; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Abundant, fine (1-2mm) roots; Abrupt, Wavy change to -

A2 0.1 - 0.3 m Brown (10YR5/3-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Abrupt, Wavy change to -

B21 0.3 - 0.5 m Yellowish brown (10YR5/7-Moist); Mottles, 7.5YR58, 10-20% , 5-15mm, Distinct; Medium clay; Weak grade of structure, Prismatic; Rough-ped fabric; Dry; Firm consistence; Field pH 6.5 (Raupach); Common, fine (1-2mm) roots; Clear, Wavy change to -

B22 0.5 - 1.2 m Brownish yellow (10YR6/8-Moist); Mottles, 7.5YR56, 20-50% , 15-30mm, Distinct; Light medium clay; Moderate grade of structure, 20-50 mm, Polyhedral; Smooth-ped fabric; Dry; Firm consistence; Field pH 7 (Raupach); Few, fine (1-2mm) roots; Gradual, Irregular change to -

B3 1.2 - 1.5 m Light grey (10YR7/2-Moist); Mottles, 7.5YR56, 20-50% , 15-30mm, Distinct; Substrate influence, 10YR81, 20-50% , 30-mm, Distinct; Light medium clay; Massive grade of structure; Dry; Firm consistence; Field pH 7 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

B3 Weathered granite present in some parts of horizon

Observation Notes

Site Notes

Project Name: Katanning land resources survey
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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m				Cmol (+)/kg				%
0 - 0.1	4.9B	10B	4.64H	0.74	0.14	0.26	0.32J		5.78D	
	5.8H	8B								
	4.9B									
	5.7H									
0 - 0.1	4.9B	10B	4.64H	0.74	0.14	0.26	0.32J		5.78D	
	5.8H	8B								
	4.9B									
	5.7H									
0 - 0.1	4.9B	10B	4.64H	0.74	0.14	0.26	0.32J		5.78D	
	5.8H	8B								
	4.9B									
	5.7H									
0 - 0.1	4.9B	10B	4.64H	0.74	0.14	0.26	0.32J		5.78D	
	5.8H	8B								
	4.9B									
	5.7H									
0.1 - 0.3	5.4B	2B	2.73H	0.56	0.02	0.07	0.04J		3.38D	
	6.5H									
0.1 - 0.3	5.4B	2B	2.73H	0.56	0.02	0.07	0.04J		3.38D	
	6.5H									
0.3 - 0.5	5.5B	3B	2.44H	1.83	0.02	0.19	0.03J		4.48D	
	6.6H									
0.3 - 0.5	5.5B	3B	2.44H	1.83	0.02	0.19	0.03J		4.48D	
	6.6H									
0.5 - 0.85	6B	4B	1.69A	2.87	0.02	0.25			4.83D	
	6.7H									
0.5 - 0.85	6B	4B	1.69A	2.87	0.02	0.25			4.83D	
	6.7H									
0.85 - 1.2	6.2B	8B	0.64A	4.14	0.02	0.79			5.59D	
	7H									
0.85 - 1.2	6.2B	8B	0.64A	4.14	0.02	0.79			5.59D	
	7H									
1.2 - 1.5	5.6B	16B	0.22H	5.7	0.04	1.8	0.02J		7.76D	
	6.6H									
1.2 - 1.5	5.6B	16B	0.22H	5.7	0.04	1.8	0.02J		7.76D	
	6.6H									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis			
								GV	CS	FS	Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1		2.88D		310B	0.192E						4.4
5.6											
		2.31D		270B	0.16E						
0 - 0.1		2.88D		310B	0.192E						4.4
5.6											
		2.31D		270B	0.16E						
0 - 0.1		2.88D		310B	0.192E						4.4
5.6											
		2.31D		270B	0.16E						
0 - 0.1		2.88D		310B	0.192E						4.4
5.6											
		2.31D		270B	0.16E						
0.1 - 0.3		0.48D		54B	0.024E						3.5
11.5											
0.1 - 0.3		0.48D		54B	0.024E						3.5
11.5											

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0.3 - 0.5	0.54D	69B	0.032E	5.8
35.3				
0.3 - 0.5	0.54D	69B	0.032E	5.8
35.3				
0.5 - 0.85	0.21D	47B	0.016E	11.9
49.5				
0.5 - 0.85	0.21D	47B	0.016E	11.9
49.5				
0.85 - 1.2	0.15D	24B	0.01E	18.1
46.2				
0.85 - 1.2	0.15D	24B	0.01E	18.1
46.2				
1.2 - 1.5	0.13D	16B	0.007E	12
40.7				
1.2 - 1.5	0.13D	16B	0.007E	12
40.7				

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	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
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
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)
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
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)