Project Name: Katanning land resources survey

Project Code: KLC Site ID: 0796 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy Locality:

Date Desc.:13/05/93Elevation:345 metresMap Ref.:Rainfall:No Data

Northing/Long.: 6342840 AMG zone: 50 Runoff: No Data
Easting/Lat.: 547410 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-slopeRelief:30 metresElem. Type:HillslopeSlope Category:No DataSlope:2 %Aspect:270 degrees

<u>Surface Soil Condition</u> Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:Mapping Unit:N/AN/APrincipal Profile Form:Dr2.13ASC Confidence:Great Soil Group:N/A

Confidence level not specified

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

Vegetation:
Surface Coarse

Surface Coarse 10-20%, medium gravelly, 6-20mm, angular, Quartz; 2-10%, , subangular,

Granite

Profile

Ap 0 - 0.05 m Dark reddish brown (5YR3/3-Moist); , 0-0%; Clay loam, sandy; Weak grade of structure,

10-20 mm,

Polyhedral; Moderately moist; Firm consistence; 10-20%, fine gravelly, 2-6mm,

subangular, Quartz,

coarse fragments; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Abrupt,

Wavy change to -

B2tk 0.05 - 0.5 m

Polyhedral;

Red (2.5YR4/6-Moist); , 0-0%; Medium clay; Moderate grade of structure, 50-100 mm,

Medium (2 -6

Smooth-ped fabric; Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, mm), Soft segregations; Field pH 9 (Raupach); Few, very fine (0-1mm) roots; Clear, Wavy

change to -

0.5 - 1.3 m ; Light medium clay; Massive grade of structure; Moderately moist; Very firm consistence;

C 0. Field pH 9.5

(Raupach);

Morphological Notes

Ap Also some black gravel

B2tk Top 5cm of this layer often mixed with layer 1 due to cultivation

C Weathered gneiss, banded red clay and coarse yellow and white weathered rock

Observation Notes

Site Notes

East Narrogin catchment (Geoff Ballard)

Project Name: Katanning land resources survey

Project Code: KLC Site ID: 0796 Observation 1

Agency Name: Agriculture Western Australia

Laboratory Test Results:

Depth pH 1:5 EC Exchangeable Cations Exchangeable CEC ECEC ESP

m		dS/m	Ca	Mg	К	Na Acidity Cmol (+)/kg			%
0 - 0.05	6B 7H	9B	4.5A	4	0.86	1		10.36D	
0 - 0.1	5.7B 6.9H 5.7B 5.7B 6.9H 5.7B	10B							
0 - 0.05	6B 7H	9B	4.5A	4	0.86	1		10.36D	
0 - 0.1	5.7B 6.9H 5.7B 5.7B 6.9H 5.7B	10B							
0 - 0.1	5.7B 6.9H 5.7B 5.7B 6.9H 5.7B	10B							
0 - 0.1	5.7B 6.9H 5.7B 5.7B 6.9H 5.7B	10B							
0 - 0.1	5.7B 6.9H 5.7B 5.7B 6.9H 5.7B	10B							
0 - 0.1	5.7B 6.9H 5.7B 5.7B 6.9H 5.7B	10B							
0.05 - 0.25	7.1B 8.5H	16B	3.4E	5.8	0.47	2.6	14B	12.27D	18.57
0.05 - 0.25 0.15 - 0.25	7.1B 8.5H 7.4B	16B	3.4E	5.8	0.47	2.6	14B	12.27D	18.57
0.25 - 0.5	8.3B 9.4H	34B	3E	8.2	0.54	4.7	18B	16.44D	26.11
0.25 - 0.5	9.4H 9.4H	34B	3E	8.2	0.54	4.7	18B	16.44D	26.11
0.4 - 0.5	8.1B								

Project Name: Project Code: Agency Name:		Katanning land resources survey KLC Site ID: 0796 Agriculture Western Australia					Observation	1		
0.5 - 0.8	8.4B 9.7H	23B	1.9E	5.8	0.42	4.4		14B	12.52D	31.43
0.5 - 0.8	9.7H 9.7H	23B	1.9E	5.8	0.42	4.4		14B	12.52D	31.43
Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Partic GV CS	cle Size And S FS	alysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0 - 0.05 15.3		1.32D		220B	0.088	3E				12.2
0 - 0.1		1.31D 1.31D		220B 220B	0.084 0.084	1E				40.0
0 - 0.05 15.3		1.32D		220B	0.088					12.2
0 - 0.1 0 - 0.1		1.31D 1.31D		220B 220B 220B	0.084 0.084 0.084	1E				
0 - 0.1		1.31D 1.31D 1.31D		220B 220B 220B	0.08 ² 0.08 ⁴ 0.08 ⁴	1E				
0 - 0.1		1.31D 1.31D 1.31D		220B 220B 220B	0.08 ² 0.08 ⁴	1E				
0 - 0.1		1.31D 1.31D		220B 220B	0.08 ⁴ 0.08 ⁴	1E				
0.05 - 0.25	<2C	1.31D 0.35D		220B 78B	0.084 0.023	1E				8
29 0.05 - 0.25 29	<2C	0.35D		78B	0.023	3E				8
0.15 - 0.25 0.25 - 0.5	<2C	0.17D		61B	0.014	1E				9.9
42.7 0.25 - 0.5	<2C	0.17D		61B	0.014					9.9
42.7 0.4 - 0.5						_				
0.5 - 0.8 34.2	<2C	0.09D		82B	0.007					15.3
0.5 - 0.8 34.2	<2C	0.09D		82B	0.007	'E				15.3
Laboratory Analyses Completed for this profile 15_NR_BSa										
15A1_CEC 15A1_K for soluble	Exc	salts Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment								
15A1_MG	salt Exc		bases (Ca2	2+,Mg2+	,Na+,K+) -	1M amn	nonium chloride	at pH 7.0	, no pretrea	atment

Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment

Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,

CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for

for soluble

15A1_NA for soluble 15C1_CA

pretreatment for

15C1_CEC 15C1_K soluble salts salts

soluble salts

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
15J_BASES 15L1_a Sum of Cations	Sum of Bases Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using and measured clay
15N1_a 15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations

Project Name: Katanning land resources survey

Project Code: KLC Site ID: 0796 Observation 1

Agency Name: Agriculture Western Australia

18A1_NR 19B_NR 3_NR Bicarbonate-extractable potassium (not recorded) Calcium Carbonate (CaCO3) - Not recorded 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 Total nitrogen - semimicro Kjeldahl, steam distillation 7A1 Total Phosphorus (ppm) - semimicro kjeldahl, automated colour 9A3

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 P10_75_106 20 to 75u particle size analysis, (method not recorded) 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 P10106_150 P10150_180 Silt (%) - Not recorded

106 to 150u particle size analysis, (method not recorded) 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)