Project Name: Katanning land resources survey

Project Code: KLC Site ID: 2319 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy

Date Desc.:13/04/95Elevation:290 metresMap Ref.:Rainfall:No Data

Northing/Long.: 6330730 AMG zone: 50 Runoff: No Data Easting/Lat.: 518710 Datum: AGD84 Drainage: Well drained

Geology

ExposureType:Soil pitConf. Sub. is Parent. Mat.:No DataGeol. Ref.:No DataSubstrate Material:No Data

Land Form

Rel/Slope Class: Gently undulating rises 9-30m 1-3% Pattern Type: Rises

Morph. Type:Mid-slopeRelief:10 metresElem. Type:HillslopeSlope Category:No DataSlope:3 %Aspect:270 degrees

<u>Surface Soil Condition</u> Loose <u>Erosion:</u> (wind); (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification:Mapping Unit:N/AN/APrincipal Profile Form:Dy4.82ASC Confidence:Great Soil Group:N/A

Confidence level not specified

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

Vegetation: Surface Coarse

20-50%, medium gravelly, 6-20mm, subrounded, ; 20-50%, , subrounded,

Profile

(Raupach);

20mm,

A1p 0 - 0.08 m

structure; Dry;

Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy sand; Single grain grade of

Loose consistence; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments;

10-20%, coarse

gravelly, 20-60mm, subrounded, , coarse fragments; Strongly water repellent, "Field pH 6

Abundant, very fine (0-1mm) roots; Sharp, Smooth change to -

A21 0.08 - 0.2 m

consistence; 20-

Yellowish brown (10YR5/4-Moist); , 0-0%; Single grain grade of structure; Dry; Loose

50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; 20-50%, medium gravelly, 6-

subrounded, , coarse fragments; Field pH 6.5 (Raupach); Many, very fine (0-1mm) roots;

Clear, Smooth

change to -

A22e 0.2 - 0.35 m

consistence;

Light yellowish brown (2.5Y6/4-Moist); , 0-0%; Single grain grade of structure; Dry; Loose

20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; 20-50%, medium

gravelly, 6-20mm, subrounded, , coarse fragments; 10-20%, coarse gravelly, 20-60mm, subrounded, ,

coarse fragments;

Field pH 7 (Raupach); Many, very fine (0-1mm) roots; Clear, Irregular change to -

B2w 0.35 - 0.55 m

consistence; 20-50%,

20mm, subrounded,,

Yellowish brown (10YR5/6-Moist); , 0-0%; Massive grade of structure; Dry; Loose

fine gravelly, 2-6mm, subrounded, , coarse fragments; 20-50%, medium gravelly, 6-

coarse fragments; 20-50%, coarse gravelly, 20-60mm, subrounded, , coarse fragments;

Field pH 7

(Raupach); Many, very fine (0-1mm) roots; Sharp, Wavy change to -

C11 0.55 - 1.2 m

clay loam;

 $Yellowish\ brown\ (10YR5/8\text{-}Moist);\ Mottles,\ 7.5R34,\ 20\text{-}50\%\ ,\ 15\text{-}30mm,\ Distinct;\ Sandy$

Massive grade of structure; Dry; 50-90%, fine gravelly, 2-6mm, subrounded, , coarse

fragments; Many

(20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 7 (Raupach); Few, very

fine (0-1mm)

roots; Gradual change to -

C12 1.2 - 1.8 m loam, sandy;

Brownish yellow (10YR6/6-Moist); Mottles, 10R46, 20-50%, 15-30mm, Distinct; Clay

Massive grade of structure; Dry; 50-90%, fine gravelly, 2-6mm, subrounded, , coarse

fragments; Many

(20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 7 (Raupach);

Morphological Notes

-CMS WCMS A21 A22e

B2w Possibly weathered ferricrete boulders - MSCL

C11 Petroreticulite roots mainly in channels; gravel broken into fragments Project Name: Project Code: Katanning land resources survey KLC Site ID: 2319

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Gravels broken into fragments; petroreticulite

Observation Notes

Site Notes

Soil pit on B. Weise - Chuckem Gully Catchment - gravelly slopes and ridges LMU.

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Laboratory Test Results:

Depth	рН	1:5 EC	E: Ca	changeab Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	O u	mg	··		(+)/kg			%
0 - 0.08	5.5B 6.2H	8B	12H	1.2	0.36	0.12	0.06J		13.68D	
0 - 0.08	5.5B 6.2H	8B	12H	1.2	0.36	0.12	0.06J		13.68D	
0 - 0.1	5.5B 6.2H	8B								
0 - 0.1	5.5B 6.2H	8B								
0.08 - 0.2	6B 6.9H	2B	3.8A	0.6	0.24	0.09			4.73D	
0.08 - 0.2	6B 6.9H	2B	3.8A	0.6	0.24	0.09			4.73D	
0.2 - 0.35	6.3B 7.3H	2B	2.2A	0.58	0.15	0.1			3.03D	
0.2 - 0.35	6.3B 7.3H	2B	2.2A	0.58	0.15	0.1			3.03D	
0.35 - 0.55	6.3B 7.2H	3B	2.7A	2.2	0.24	0.17			5.31D	
0.35 - 0.55	6.3B 7.2H	3B	2.7A	2.2	0.24	0.17			5.31D	
0.35 - 0.55	6.3B 7.2H	3B	2.7A	2.2	0.24	0.17			5.31D	
0.55 - 0.85	6.4B 7.1H	3B	1.8A	2.2	0.07	0.23			4.3D	
0.55 - 0.85	6.4B 7.1H	3B	1.8A	2.2	0.07	0.23			4.3D	
0.85 - 1.2	6.3B 7H	3B	1.3A	2.2	0.03	0.28			3.81D	
0.85 - 1.2	6.3B 7H	3B	1.3A	2.2	0.03	0.28			3.81D	
1.2 - 1.5	6.5B 7.2H	4B	1A	2.7	0.03	0.34			4.07D	
1.2 - 1.5	6.5B 7.2H	4B	1A	2.7	0.03	0.34			4.07D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	rticle Size / CS FS	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3	%	
0 - 0.08 2.6		4.55D		440B	0.291E				4.9
0 - 0.08 2.6		4.55D		440B	0.291E				4.9
0 - 0.1		4.68D		440B	0.281E				
0 - 0.1 0.08 - 0.2		4.68D 1.05D		440B 93B	0.281E 0.057E				4.7
4.1									
0.08 - 0.2 4.1		1.05D		93B	0.057E				4.7

0.2 - 0.35 5.3	0.36D	38B	0.021E	3.8
0.2 - 0.35	0.36D	38B	0.021E	3.8
5.3 0.35 - 0.55 17.6	0.31D	48B	0.023E	6
0.35 - 0.55 17.6	0.31D	48B	0.023E	6
0.35 - 0.55 17.6	0.31D	48B	0.023E	6
0.55 - 0.85 18	0.12D	35B	0.009E	5.1

Project Name: Project Code: Agency Name:	Katanning land KLC Agriculture We	Site ID: 2	2319	Observation	1	
0.55 - 0.85 18	0.12D	35B	0.009E			5.1
0.85 - 1.2 17.4	0.09D	35B	0.008E			6.3
0.85 - 1.2 17.4	0.09D	35B	0.008E			6.3
1.2 - 1.5 15.2	0.07D	24B	0.005E			5.5
1.2 - 1.5 15.2	0.07D	24B	0.005E			5.5

Laboratory Analyses Completed for this profile

<u> Laborator</u> y / tirar	your completed for this prome
13C1_AL 13C1_FE 15_NR_BSa 15_NR_CMR	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	Exchangeable bases (Caz+,Ngz+,Na+,N+) - TW animonium chloride at pri 7.0, no prefreatment
for soluble	anlla
	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 AI - by compulsive exchange, no pretreatment for soluble salts
15E1 CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
salts	Exchangeable bases (Gaz 1, Nigz 1, Na 1, 17) by compulsive exchange, no preficalment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_K 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
	Sum of Bases
15J_BASES	
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Callons	and managed alog
45N4 -	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
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)