Project Name: Katanning land resources survey

Project Code: KLC Site ID: 0721 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy Locality:

Date Desc.: 19/02/93 Elevation: 340 metres Map Ref.: Rainfall: No Data

Northing/Long.: 6330830 AMG zone: 50 Runoff: No Data

Easting/Lat.: 537060 Datum: AGD84 Drainage: Imperfectly 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: Gently undulating rises 9-30m 1-3% Pattern Type: Rises

Morph. Type: Upper-slope Relief: 25 metres Hillslope Slope Category: No Data Elem. Type: Slope: 2 % Aspect: 0 degrees

Surface Soil Condition Hardsetting, Hardsetting

(wind); (sheet) (rill) (qully) **Erosion:**

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Principal Profile Form: Dy3.83 Mesotrophic Mottled-Mesonatric Yellow Sodosol **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:

0-2%, medium gravelly, 6-20mm, subrounded, ; No surface coarse fragments Surface Coarse

Profile

0 - 0.1 m Dark greyish brown (10YR4/2-Moist); , 0-0%; Coarse sand; Single grain grade of

structure; Dry; Loose

consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments;

Strongly water

repellent, "Field pH 6 (Raupach); Common, fine (1-2mm) roots; Sharp, Smooth change to

Light yellowish brown (2.5Y6/4-Moist); , 0-0%; Clayey coarse sand; Massive grade of A2e 0.1 - 0.5 m

structure; Dry;

Very weak consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse

fragments; Field pH 6

(Raupach); Few, very fine (0-1mm) roots; Abrupt, Wavy change to -

0.5 - 1.15 m B2t

medium clay;

Reddish yellow (7.5YR6/6-Moist); Mottles, 10YR72, 10-20%, 15-30mm, Distinct; Light

20mm, rounded, ,

Massive grade of structure; Dry; Very firm consistence; 10-20%, medium gravelly, 6-

(Raupach);

coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 6

Clear, Wavy change to -

1.15 - 1.8 m Massive grade of

White (10YR8/1-Moist); Mottles, 7.5YR66, 2-10%, 15-30mm, Distinct; Clay loam;

structure; Dry; Firm consistence; Field pH 8.5 (Raupach);

Morphological Notes

Gravel increased below 40cm to 5% round smoothfaced, medium A2e

B2t Nodules of coarse quartz cemented by iron

Kaolinised clay

Observation Notes

Site Notes

30m downslope of breakaway with a thin layer of coarse sand on surface

Katanning land resources survey **Project Name:**

Project Code: Observation 1 KLC Site ID: 0721

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Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Vig	Cations K		Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca i	vig	ĸ	Na Cmol (-				%
0 - 0.1	5.3B 6H 5.4B 6.2H 5.4B	8B 9B	5.02H	0.65	0.15	0.1	0.08J		5.92D	
0 - 0.1	5.4B 5.3B 6H 5.4B 6.2H 5.4B	8B 9B	5.02H	0.65	0.15	0.1	0.08J		5.92D	
0 - 0.1	5.4B 5.3B 6H 5.4B 6.2H 5.4B	8B 9B	5.02H	0.65	0.15	0.1	0.08J		5.92D	
0 - 0.1	5.4B 5.3B 6H 5.4B 6.2H 5.4B	8B 9B	5.02H	0.65	0.15	0.1	0.08J		5.92D	
0 - 0.1	5.3B 6H 5.4B 6.2H 5.4B	8B 9B	5.02H	0.65	0.15	0.1	0.08J		5.92D	
0.1 - 0.5	5.1B 6H	2B	0.69H	0.15	0.03	0.04	0.07J		0.91D	
0.1 - 0.5 0.15 - 0.25 0.4 - 0.5	5.1B 6H 5.2B 5.3B	2B	0.69H	0.15	0.03	0.04	0.07J		0.91D	
0.5 - 0.8	5.4B 6.3H	5B	0.4H	1.07	0.02	0.3	0.02J		1.79D	
0.5 - 0.8	5.4B 6.3H	5B	0.4H	1.07	0.02	0.3	0.02J		1.79D	
0.8 - 1.15	6.4B 7.3H	18B	0.12A	2.22	0.03	1.29			3.66D	
0.8 - 1.15	6.4B 7.3H	18B	0.12A	2.22	0.03	1.29			3.66D	
1.15 - 1.55	7.1B 7.9H	86B	0.04A	3.88	0.07	2.82			6.81D	
1.15 - 1.55	7.1B 7.9H	86B	0.04A	3.88	0.07	2.82			6.81D	
Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Tota K	l Bulk Density	Particle GV CS	Size An FS	alysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0 - 0.1 3.4		1.82D		200B	0.10	4E				3.1
J. 4		1.87D		200B	0.09	8E				

Project Name: Project Code: Agency Name:	Katanning land KLC Agriculture Wes	Site ID: 0	721	Observation	1	
0 - 0.1 3.4	1.82D	200B	0.104E			3.1
0 - 0.1 3.4	1.87D 1.82D	200B 200B	0.098E 0.104E			3.1
0 - 0.1 3.4	1.87D 1.82D	200B 200B	0.098E 0.104E			3.1
0 - 0.1 3.4	1.87D 1.82D	200B 200B	0.098E 0.104E			3.1
0.1 - 0.5 3.5	1.87D 0.18D	200B 37B	0.098E 0.014E			3.6
0.1 - 0.5 3.5 0.15 - 0.25	0.18D	37B	0.014E			3.6
0.4 - 0.5 0.5 - 0.8 23	0.11D	37B	0.009E			7.1
0.5 - 0.8 23	0.11D	37B	0.009E			7.1
0.8 - 1.15 32.1	0.1D	35B	0.007E			8.3
0.8 - 1.15 32.1	0.1D	35B	0.007E			8.3
1.15 - 1.55 42.5	0.05D	43B	0.006E			17.2
42.5 1.15 - 1.55 42.5	0.05D	43B	0.006E			17.2

Laboratory Analyses Completed for this profile

15_NR_BSa 15_NR_CMR 15A1_CA for soluble	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - Not recorded Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_CEC 15A1_K for soluble	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 for soluble	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15E1_AL 15E1_CA	Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
salts 15E1_K 15E1_MG 15E1_MN 15E1_NA 15J_BASES 15L1_a Sum of Cations	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Sum of Bases Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
15N1_a 15N1_b 18A1_NR 3_NR 4_NR 4B_AL_NR 4B1 6A1_UC	and measured clay Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations Bicarbonate-extractable potassium (not recorded) Electrical conductivity or soluble salts - Not recorded pH of soil - Not recorded Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded pH of 1:5 soil/0.01M calcium chloride extract - direct Organic carbon (%) - Uncorrected Walkley and Black method

7A1 9A3 9B_NR 9H1 P10_1m2m P10_20_75 P10_75_106 P10_gt2m P10_NR_C P10_NR_Saa P10_NR_Z P10106_150 P10150_180 P10180_300 P10300_600 P106001000	Total nitrogen - semimicro Kjeldahl, steam distillation Total Phosphorus (ppm) - semimicro kjeldahl, automated colour Bicarbonate-extractable phosphorus (not recorded) Anion storage capacity 1000 to 2000u particle size analysis, (method not recorded) 20 to 75u particle size analysis, (method not recorded) 75 to 106u particle size analysis, (method not recorded) > 2mm particle size analysis, (method not recorded) Clay (%) - Not recorded Sand (%) - Not recorded arithmetic difference, auto generated Silt (%) - Not recorded 106 to 150u particle size analysis, (method not recorded) 150 to 180u particle size analysis, (method not recorded) 180 to 300u particle size analysis, (method not recorded) 300 to 600u particle size analysis, (method not recorded) 600 to 1000u particle size analysis, (method not recorded)