Project Name: Katanning land resources survey

Project Code: Observation ID: 1 KLC Site ID: 0070

Agency Name: Agriculture Western Australia

Site Information

Desc. By: **Heather Percy** Locality:

Date Desc.: Elevation: 24/10/91 310 metres Map Ref.: Rainfall: No Data

Northing/Long.: 6257840 AMG zone: 50 Runoff: No Data Easting/Lat.: 572050 Datum: AGD84 Drainage: No Data

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: Lower-slope Relief: 20 metres Elem. Type: Hillslope Slope Category: No Data Slope: 2 % Aspect: No Data

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Dr2.13 **Principal Profile Form:** Hypercalcic Subnatric Red 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: Surface Coarse

No surface coarse fragments; No surface coarse fragments

Profile

0 - 0.08 m Dark reddish brown (5YR3/3-Moist); , 0-0%; Sandy loam; Moderate grade of structure, 2-Α1

5 mm,

Polyhedral; Rough-ped fabric; Dry; Water repellent; Field pH 5.5 (Raupach); Many, very

fine (0-1mm)

roots; Abrupt, Smooth change to -

0.08 - 0.55 m

mm, Prismatic;

Yellowish red (5YR5/6-Moist); , 0-0%; Medium clay; Strong grade of structure, 200-500

Rough-ped fabric; Dry; Field pH 7.5 (Raupach); Few, fine (1-2mm) roots; Clear, Wavy

change to -

0.55 - 0.85 m B22k

Rough-ped fabric;

Yellowish red (5YR5/6-Moist); , 0-0%; Light medium clay; 100-200 mm, Polyhedral;

Dry; Many (20 - 50 %), Calcareous, Extremely coarse (> 60 mm), Soft segregations; Soil

matrix is Very

highly calcareous; Field pH 8.5 (Raupach); Few, medium (2-5mm) roots; Clear change to

C 0.85 - 1.5 m Yellowish red (5YR4/6-Moist); , 0-0%; Light clay; Massive grade of structure; Dry; Soil

matrix is

Moderately calcareous; Field pH 8.5 (Raupach); Few, medium (2-5mm) roots;

Morphological Notes

+MS

5YR 4/4 CUTAN COATING +MS **B21** TREE ROOTS. PATCHY CO3 B22k

TREE ROOTS

Observation Notes

Site Notes

close to wandoo trees

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Laboratory Test Results:										
Depth	рН	1:5 EC		hangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	wig	K	Cmol	•			%
0 - 0.08	5.1B 6.1H	6B	7.23H	2.03	0.51	0.22	0.06J		9.99D	
0 - 0.1	4.9B	10B								
0 - 0.08	5.8H 5.1B 6.1H	6B	7.23H	2.03	0.51	0.22	0.06J		9.99D	
0 - 0.1	4.9B 5.8H	10B								
0.08 - 0.55	7.6B	21B	6.19E	6.7	0.14	2.16		16B	15.19D	13.50
0.08 - 0.28	8.6H 5.9B 6.9H	14B	6.54A	7.24	0.3	1.68			15.76D	
0.08 - 0.55	7.6B	21B	6.19E	6.7	0.14	2.16		16B	15.19D	13.50
0.08 - 0.55	8.6H 7.6B 8.6H	21B	6.19E	6.7	0.14	2.16		16B	15.19D	13.50
0.08 - 0.28	5.9B 6.9H	14B	6.54A	7.24	0.3	1.68			15.76D	
0.28 - 0.55	6.9B 8.2H	21B	6.67E	6.93	0.16	3.05		17B	16.81D	17.94
0.28 - 0.55	6.9B 8.2H	21B	6.67E	6.93	0.16	3.05		17B	16.81D	17.94
0.28 - 0.55	6.9B 8.2H	21B	6.67E	6.93	0.16	3.05		17B	16.81D	17.94
0.55 - 0.85	8.6B 9.4H	120B	6.05E	11.34	0.15	7.96		23B	25.5D	34.61
0.55 - 0.85	9.4H 8.6B 9.4H	120B	6.05E	11.34	0.15	7.96		23B	25.5D	34.61
0.55 - 0.85	8.6B 9.4H	120B	6.05E	11.34	0.15	7.96		23B	25.5D	34.61
0.85 - 1.5	8.7B 9.5H	61B	0.81E	9.28	0.45	9.82		20B	20.36D	49.10
0.85 - 1.5	8.7B 9.5H	61B	0.81E	9.28	0.45	9.82		20B	20.36D	49.10
0.85 - 1.5	8.7B 9.5H	61B	0.81E	9.28	0.45	9.82		20B	20.36D	49.10
Depth	CaCO3	Organic	Avail.	Total	Total	Tot	al Bulk	Pa	article Size A	nalysis
•		C Clay	Р	Р	N	K	Density	GV	CS FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0 - 0.08 8.7		2.88D		310B						10
0 - 0.1 0 - 0.08		1.89D 2.88D		350B 310B	0.12	6E				10
8.7 0 - 0.1		1.89D		350B	0.12	6E				
0.08 - 0.55 30	<2C	0.33D		110B						7.6
0.08 - 0.28 33.5		a							591	7.5
0.08 - 0.55 30	<2C	0.33D		110B						7.6
0.08 - 0.55 30	<2C	0.33D		110B						7.6
0.08 - 0.28 33.5									591	7.5
0.28 - 0.55 31	<2C								621	7

Project Nam Project Code Agency Nam	e: K	LC	nd resources survey Site ID: 0070 Vestern Australia	Observation	1	
0.28 - 0.55 31	<2C				621	7
0.28 - 0.55 31	<2C				62I	7
0.55 - 0.85 48.1	28C	0.29D	110B			7.9
0.55 - 0.85 48.1	28C	0.29D	110B			7.9
0.55 - 0.85 48.1	28C	0.29D	110B			7.9
0.85 - 1.5 9	<2C	0.02D	620B			8
0.85 - 1.5 9	<2C	0.02D	620B			8
0.85 - 1.5 9	<2C	0.02D	620B			8
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Laboratory Analyses Completed for this profile

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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
15C1_CA pretreatment for	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
15C1_CEC 15C1_K soluble salts	soluble salts 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
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
15E1_AL 15E1_CA salts	Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
15E1_K 15E1_MG 15E1_MN 15E1_NA 15J_BASES	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
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
15N1_a 15N1_b 18A1_NR 19B_NR 3_NR 4_NR 4B1 6A1_UC 7A1	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) Calcium Carbonate (CaCO3) - Not recorded Electrical conductivity or soluble salts - Not recorded pH of soil - Not recorded pH of 1:5 soil/0.01M calcium chloride extract - direct Organic carbon (%) - Uncorrected Walkley and Black method Total nitrogen - semimicro Kjeldahl, steam distillation

Total Phosphorus (ppm) - semimicro kjeldahl, automated colour Bicarbonate-extractable phosphorus (not recorded) Anion storage capacity

9A3 9B_NR 9H1

9H1 P10_1m2m P10_20_75 P10_75_106 P10_gt2m P10_NR_C P10_NR_S P10_NR_Saa P10_NR_Z P10106_150 1000 to 2000u particle size analysis, (method not recorded) 20 to 75u 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
Sand (%) - Not recorded arithmetic difference, auto generated
Silt (%) - Not recorded
106 to 150u particle size analysis, (method not recorded)

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Observation 1

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) P10150_180 P10180_300 P10300_600 P106001000