

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0553 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Jaki Hogstrom	Locality:	
Date Desc.:	11/11/92	Elevation:	238 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6286730 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	484780 Datum: AGD84	Drainage:	Poorly 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 rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Flat	Relief:	20 metres
Elem. Type:	Valley flat	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition Firm

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Sodic Eutrophic Grey Chromosol		Principal Profile Form:	Dg4.42
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

A1	0 - 0.2 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Moderately moist;
		Loose consistence; Field pH 5.5 (Raupach); Abundant, fine (1-2mm) roots; Abrupt, Tongued change to -
A2e	0.2 - 0.5 m	Light grey (10YR7/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; Loose consistence;
		Field pH 6 (Raupach); Many, fine (1-2mm) roots; Abrupt, Wavy change to -
B21	0.5 - 0.7 m	White (2.5Y8/2-Moist); Mottles, 7.5YR68, 10-20% , 5-15mm, Distinct; Mottles, 5YR58, 10-20% , 5-15mm, Prominent; Light clay; Moderate grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric;
		Moist; Very firm consistence; Field pH 7.5 (Raupach); Gradual, Wavy change to -
B22	0.7 - 1 m	Pale yellow (2.5Y8/4-Moist); Mottles, 7.5YR68, 20-50% , 5-15mm, Distinct; Light clay; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Wet; Weak consistence; Field pH 7.5 (Raupach);

Morphological Notes

Observation Notes

Site Notes

Morphologically resembles sodic soil (Indinup) but is a Chromosol with sodic lower B2. Landform doesn't match mapunit pssobly should be 253Bo_4.

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Cations	Na	Exchangeable	CEC	ECEC	ESP
m		dS/m		Mg K	Cmol (+)/kg	Acidity			%

0 - 0.2	4.7B 5.9H	3B	1.89H	0.67	<0.02	0.12	0.3J	2.69D
0 - 0.1	4.8B 5.5H	16B						
0 - 0.2	4.7B 5.9H	3B	1.89H	0.67	<0.02	0.12	0.3J	2.69D
0 - 0.11	4.91B							
0 - 0.1	4.8B 5.5H	16B						
0.11 - 0.21	4.79B							
0.2 - 0.5	5.7B 6.8H	2B	0.5A	0.68	<0.02	0.09		1.28D
0.2 - 0.5	5.7B 6.8H	2B	0.5A	0.68	<0.02	0.09		1.28D
0.41 - 0.51	5.69B							
0.5 - 0.7	5.8B 6.7H	4B	1.3A	1.92	0.03	0.2		3.45D
0.5 - 0.7	5.8B 6.7H	4B	1.3A	1.92	0.03	0.2		3.45D
0.6 - 1	5.9B 6.7H	5B	1.11A	3.22	0.02	0.39		4.74D
0.6 - 1	5.9B 6.7H	5B	1.11A	3.22	0.02	0.39		4.74D

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m ³	GV CS FS Silt
0 - 0.2 6.4		0.6D		57B	0.034E			1.6
0 - 0.1		2.21D		170B	0.172E			
0 - 0.2 6.4		0.6D		57B	0.034E			1.6
0 - 0.11								
0 - 0.1		2.21D		170B	0.172E			
0.11 - 0.21								
0.2 - 0.5 13.7		0.11D		36B	0.016E			1
0.2 - 0.5 13.7		0.11D		36B	0.016E			1
0.41 - 0.51								
0.5 - 0.7 34.3		0.12D		37B	0.015E			1.3
0.5 - 0.7 34.3		0.12D		37B	0.015E			1.3
0.6 - 1 25.6		0.05D		31B	0.009E			4.5
0.6 - 1 25.6		0.05D		31B	0.009E			4.5

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts

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15A1_MG for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (Mn ²⁺) 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)