

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0148 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 27/03/92
Map Ref.:
Northing/Long.: 6248730 AMG zone: 50
Easting/Lat.: 494580 Datum: AGD84
Locality:
Elevation: 319 metres
Rainfall: No Data
Runoff: No Data
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-10% **Pattern Type:** Low hills

Morph. Type: Lower-slope
Elem. Type: Hillslope
Slope: 5 %
Relief: 40 metres
Slope Category: No Data
Aspect: 180 degrees

Surface Soil Condition Loose

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

Soil Classification

Australian Soil Classification:
 Bleached-Mottled Natric Brown Kurosol
ASC Confidence:
 All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Uc1.21
Great Soil Group: N/A

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	Dark grey (10YR4/1-Moist); , 0-0% ; Sand; Single grain grade of structure; Dry; Water repellent; Field
A2e	0.2 - 0.8 m	Light grey (10YR7/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Dry; Field pH 6
B2	0.8 - 1.2 m	Yellowish brown (10YR5/8-Moist); Mottles, 10YR62, 20-50% , 30-mm, Distinct; Mottles, 2.5YR48; Sandy
		light clay; Massive grade of structure; Dry; Field pH 4.5 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

A1 ABUNDANT FINE ROOTS TO 8CM, ABUNDANT MEDIUM THROUGHOUT LAYER. +KS

Observation Notes

Site Notes

Water sampled from hole has EC of 3480mS/m

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Na	Acidity			%
						Cmol (+)/kg				
0 - 0.2	4.8B	5B	0.76H	0.26	0.02	0.07	0.25J		1.11D	
0 - 0.1	5.6H	12B								
0 - 0.2	5.9H									
0 - 0.2	4.8B	5B	0.76H	0.26	0.02	0.07	0.25J		1.11D	

0 - 0.1	5.6H 5B 5.9H	12B							
0.2 - 0.8	5B 5.9H	4B	0.27H	0.18	0.02	0.12	0.16J		0.59D
0.2 - 0.8	5B 5.9H	4B	0.27H	0.18	0.02	0.12	0.16J		0.59D
0.8 - 1.2	3.8B 3.9H	350B	0.26H	1.68	<0.02	0.35	1.43J		2.3D
0.8 - 1.2	3.8B 3.9H	350B	0.26H	1.68	<0.02	0.35	1.43J		2.3D

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m ³			%	
0 - 0.2 5		0.5D		82B	0.028E						2.1
0 - 0.1		3.71D		250B	0.257E						
0 - 0.2 5		0.5D		82B	0.028E						2.1
0 - 0.1		3.71D		250B	0.257E						
0.2 - 0.8 5		0.24D		35B	0.015E						1.6
0.2 - 0.8 5		0.24D		35B	0.015E						1.6
0.8 - 1.2 32.6		0.15D		26B	0.006E						6.2
0.8 - 1.2 32.6		0.15D		26B	0.006E						6.2

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
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
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)

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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)