

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0790 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Jaki Hogstrom	Locality:	
Date Desc.:	12/05/93	Elevation:	237 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6302780 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	482730 Datum: AGD84	Drainage:	Poorly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Alluvial plain
Morph. Type:	Flat	Relief:	15 metres
Elem. Type:	Plain	Slope Category:	No Data
Slope:	1 %	Aspect:	90 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mesotrophic Subnatric Brown Sodosol		Principal Profile Form:	Db3.62
ASC Confidence:		Great Soil Group:	N/A
Analytical data are incomplete but reasonable confidence.			

Site Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A1	0 - 0.05 m	Black (10YR2/1-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Moderately moist; Very repellent; Field
A2	0.05 - 0.25 m	Brown (10YR4/3-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Moderately moist; Very 20%, medium (0-1mm) roots;
B2	0.25 - 0.45 m	Dark yellowish brown (10YR4/4-Moist); , 0-0% ; Sandy medium clay; Massive grade of structure; Moderately moist; Very weak consistence; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; Field pH 7 (Raupach); Common, fine (1-2mm) roots; Gradual change to -
C	0.45 - 0.77 m	Light yellowish brown (2.5Y6/4-Moist); Mottles, 7.5YR58, 10-20% , 15-30mm, Distinct; Sandy light gravelly, 2-6mm, subrounded, , coarse fragments; Field pH 7.5 (Raupach); Few, very fine (0-1mm) roots;
	0.77 - m	; Massive grade of structure;

Morphological Notes

C Some rock fragments
Hard layer - stopped auger. Possibly ferricrete

Observation Notes

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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				Cmol (+)/kg				%
0 - 0.1	4.9B									
	4.9B									
0 - 0.1	4.9B									
	4.9B									
0.15 - 0.25	5.3B									
0.25 - 0.45	5.9B	17B	2.31A	3.82	0.13	0.87			7.13D	
	6.7H									
0.25 - 0.45	5.9B	17B	2.31A	3.82	0.13	0.87			7.13D	
	6.7H									
0.3 - 0.4	5.7B									

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.1								
0 - 0.1								
0.15 - 0.25								
0.25 - 0.45								62.5I 6.5
31								
0.25 - 0.45								62.5I 6.5
31								
0.3 - 0.4								

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,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 (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
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
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
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded