

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 1838 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	06/07/94	Elevation:	320 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6277110 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	553380 Datum: AGD84	Drainage:	Moderately well 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: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type:	Lower-slope	Relief:	25 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	3 %	Aspect:	0 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mesotrophic Mottled-Subnatric Yellow Sodosol	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Dy3.21
		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

A1p	0 - 0.15 m	Black (10YR2/1-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Moist; Field pH 6 (Raupach);
		Abrupt change to -
A21	0.15 - 0.2 m	Brown (10YR5/3-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure;
	Moist; 10-20%,	medium gravelly, 6-20mm, rounded, , coarse fragments; Field pH 5.5 (Raupach); Clear change to -
A22	0.2 - 0.35 m	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure;
	of structure;	Wet; 10-20%, medium gravelly, 6-20mm, rounded, , coarse fragments; Field pH 6 (Raupach); Clear change to -
B2	0.35 - 0.6 m	Brownish yellow (10YR6/6-Moist); Mottles, 10YR72, 2-10% , 5-15mm, Faint; , 2.5YR46, 10-20% , 5-
	10-20% , 5-	15mm, Distinct; Light medium clay; Moderate grade of structure; Smooth-ped fabric; Moderately moist;
		Field pH 6 (Raupach); Clear change to -
B3	0.6 - 0.7 m	Strong brown (7.5YR5/8-Moist); Mottles, 10YR81, 10-20% , 5-15mm, Distinct; Mottles, 2.5YR46, 2-10%
	2.5YR46, 2-10%	, 5-15mm, Distinct; Clay loam; Massive grade of structure; Moderately moist; Field pH 6 (Raupach);

Morphological Notes

A22 pH<6

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	4.8B 5.6H	7B								
0.2 - 0.3	4.3B 5.1H	1B								
0.35 - 0.55	5B 5.7H	4B	1.5H	2.1	0.02	0.23	0.02J		3.85D	
0.4 - 0.5	5.1B 5.6H	4B								

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1											
0.2 - 0.3											
0.35 - 0.55									42.5I		8.5
49											
0.4 - 0.5											

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMt	Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,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 (Mn2+) 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
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_Nr_C	Clay (%) - Not recorded
P10_Nr_S	Sand (%) - Not recorded
P10_Nr_Z	Silt (%) - Not recorded