

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0089 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	04/11/91	Elevation:	292 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6265790 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	575980 Datum: AGD84	Drainage:	Imperfectly 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:	Upper-slope	Relief:	30 metres
Elem. Type:	Hillslope	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
N/A		Principal Profile Form:	Dy3.43
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse 20-50%, medium gravelly, 6-20mm, rounded, Ironstone; No surface coarse fragments

Profile

A1	0 - 0.15 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Dry; 20-50%, Ironstone, coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Many (20 - 50 %), Ferruginous, Very coarse (20 - 60 mm), Nodules; Water repellent; Field pH 6.5 (Raupach); Abundant, fine (1-2mm) roots; Sharp change to -
A2e	0.15 - 0.3 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Loamy fine sand; Single grain grade of structure; Dry; 50-90%, Ironstone, coarse fragments; Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 7 (Raupach); Abundant, fine (1-2mm) roots; Abrupt change to -
B2t	0.3 - 0.6 m	Yellow (10YR7/6-Moist); Mottles, 7.5YR6/8, 10-20% , 0-5mm, Faint; Sandy medium clay; Strong grade of structure, Columnar; Rough-ped fabric; Dry; 20-50%, Ironstone, coarse fragments; Common (10 - 20 %), Ferruginous, Medium (2 - 6 mm), Nodules; Field pH 8.5 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

A1	F QZ & M,C IS
A2e	F,M IS
B2t	F IS AT TOP. SAMPLED

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP	
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%	
0.3 - 0.6	7.3B 8.2H	8B	2.17E	1.62	0.18	0.31		2B	4.28D	15.50
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Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt
0.3 - 0.6	<2C							72I	1.5
26.5									
0.3 - 0.6	<2C							72I	1.5
26.5									
0.3 - 0.6	<2C							72I	1.5
26.5									

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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
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