Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0039** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	10/10/91	**Elevation:**	303 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6263360 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	583950 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:	Lower-slope	**Relief:**	20 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	3 %	**Aspect:**	315 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:** Dy3.42
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 2-10%, medium gravelly, 6-20mm, rounded, Ironstone; 0-2%, , angular, Quartz

Profile

A11 0 - 0.05 m Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Dry; 10-20%, Ironstone, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Water repellent; Field pH 5.5 (Raupach); Abundant, fine (1-2mm) roots; Clear change to -

A12 0.05 - 0.15 m Greyish brown (10YR5/2-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Dry; 20-50%, Ironstone, coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Clear change to -

A2e 0.15 - 0.4 m Greyish brown (10YR5/2-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; 10-20%, Ironstone, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 - 6 mm), Nodules; Field pH 6 (Raupach); Abrupt, Irregular change to -

B21 0.4 - 0.85 m Light yellowish brown (2.5Y6/4-Moist); Mottles, 10YR68, 20-50% , 15-30mm, Faint; Sandy medium clay; Strong grade of structure, 200-500 mm, Columnar; Rough-ped fabric; Moderately moist; Soil matrix is Slightly calcareous; Field pH 8 (Raupach); Gradual change to -

B22 0.85 - 1.1 m Light grey (10YR7/2-Moist); Mottles, 10YR68, 20-50% , 5-15mm, Faint; Medium clay; Moderate grade of structure; Smooth-ped fabric; Dry; Soil matrix is Slightly calcareous; Field pH 8 (Raupach);

Morphological Notes

A11	M,C R IS GRAVEL
A12	M,C R IS GRAVEL
A2e	F,M R IS GRAVEL
B21	TOP OF DOMES ARE AT 20 CM
B22	LAYER 4 SAMPLED

Observation Notes

Site Notes

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0039 **Observation** 1
Agency Name: Agriculture Western Australia

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0.2 - 0.85	6.9B 8.4H	14B	1.08E	4.55	0.08	2.18		8B	7.89D	27.25
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Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0.2 - 0.85	<2C								52.5I		3
44.5											
0.2 - 0.85	<2C								52.5I		3
44.5											
0.2 - 0.85	<2C								52.5I		3
44.5											

Laboratory Analyses Completed for this profile

15_NR_BSa Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR 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