

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0902 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 16/06/93	Elevation: 335 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6286020 AMG zone: 50	Runoff: No Data
Easting/Lat.: 577660 Datum: AGD84	Drainage: 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: Upper-slope	Relief: 30 metres
Elem. Type: Summit surface	Slope Category: No Data
Slope: 2 %	Aspect: 180 degrees

Surface Soil Condition Loose

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

Soil Classification

Australian Soil Classification: N/A	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: Dy5.62
	Great Soil Group: N/A

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

Vegetation:

Surface Coarse 10-20%, medium gravelly, 6-20mm, rounded, ; No surface coarse fragments

Profile

<p>A1p 0 - 0.12 m structure; Loose medium gravelly, 6- roots; Abrupt</p>	<p>Dark greyish brown (10YR4/2-Moist); , 0-0% ; Loamy sand; Single grain grade of consistence; 10-20%, fine gravelly, 2-6mm, rounded, , coarse fragments; 10-20%, 20mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Many, very fine (0-1mm) change to -</p>
<p>A2 0.12 - 0.35 m Loose consistence; gravelly, 2-6mm, Clear change to -</p>	<p>Brown (10YR5/3-Moist); , 0-0% ; Sandy loam; Single grain grade of structure; Moist; 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; 20-50%, fine subrounded, , coarse fragments; Field pH 6 (Raupach); Many, very fine (0-1mm) roots;</p>
<p>B21 0.35 - 0.65 m loam, sandy; Weak gravelly, 6-20mm, fragments; Many very fine (0-</p>	<p>Yellowish brown (10YR5/6-Moist); Mottles, 2.5YR46, 2-10% , 5-15mm, Distinct; Clay grade of structure; Rough-ped fabric; Moist; Very weak consistence; 20-50%, medium subangular, , coarse fragments; 20-50%, fine gravelly, 2-6mm, subangular, , coarse (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 7 (Raupach); Common, 1mm) roots; Clear change to -</p>
<p>B22 0.65 - 0.8 m coarse sandy; 20mm, subangular, , (20 - 50 %), roots; Abrupt</p>	<p>Strong brown (7.5YR5/6-Moist); Mottles, 2.5YR46, 10-20% , 5-15mm, Distinct; Clay loam, Massive grade of structure; Moist; Weak consistence; 20-50%, medium gravelly, 6- coarse fragments; 20-50%, fine gravelly, 2-6mm, subangular, , coarse fragments; Many Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 7 (Raupach); Few, very fine (0-1mm) change to -</p>
<p>B3 0.8 - 1.05 m Light medium clay;</p>	<p>Brownish yellow (10YR6/6-Moist); Mottles, 2.5YR46, 20-50% , 15-30mm, Prominent;</p>

50%, fine
(6 - 20 mm),
Moderate grade of structure; Rough-ped fabric; Moderately moist; Weak consistence; 20-
gravelly, 2-6mm, subrounded, , coarse fragments; Many (20 - 50 %), Ferruginous, Coarse
Nodules; Field pH 7 (Raupach); Few, very fine (0-1mm) roots;

Morphological Notes

B22 Very slight dispersion.

Observation Notes

Site Notes

Stanley Road.

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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	4.6B									
0.15 - 0.25	4.9B									
0.35 - 0.55	5.9B	5B	1.84A	1.5	0.22	0.23			3.79D	
	6.7H									
0.35 - 0.55	5.9B	5B	1.84A	1.5	0.22	0.23			3.79D	
	6.7H									
0.35 - 0.55	5.9B	5B	1.84A	1.5	0.22	0.23			3.79D	
	6.7H									
0.4 - 0.5	5.8B									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1											
0.15 - 0.25											
0.35 - 0.55									68.5l		3.5
28											
0.35 - 0.55									68.5l		3.5
28											
0.35 - 0.55									68.5l		3.5
28											
0.4 - 0.5											

Laboratory Analyses Completed for this profile

13C1_AL Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15_NR_BSa Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV 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