

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 1954 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 29/08/94
Map Ref.:
Northing/Long.: 6271230 AMG zone: 50
Easting/Lat.: 479840 Datum: AGD84
Locality:
Elevation: 300 metres
Rainfall: No Data
Runoff: No Data
Drainage: No Data

Geology

ExposureType: Existing vertical exposure
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-10% **Pattern Type:** Low hills

Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 6 %
Relief: 60 metres
Slope Category: No Data
Aspect: 180 degrees

Surface Soil Condition Loose

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

Soil Classification

Australian Soil Classification:
 Ferric Eutrophic Brown Kandosol
ASC Confidence:
 Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Gn2.25
Great Soil Group: N/A

Site No effective disturbance. Natural

Vegetation:

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

Profile

A1 0 - 0.07 m Moderately moist; 20mm, rounded, -	Dark brown (7.5YR3/3-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; 20-50%, fine gravelly, 2-6mm, rounded, , coarse fragments; 10-20%, medium gravelly, 6- , coarse fragments; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Clear change to -
A2c 0.07 - 0.5 m Moderately moist; 20mm, rounded, to -	Strong brown (7.5YR5/6-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; 20-50%, fine gravelly, 2-6mm, rounded, , coarse fragments; 20-50%, medium gravelly, 6- , coarse fragments; Field pH 7 (Raupach); Common, fine (1-2mm) roots; Gradual change
B1c 0.5 - 0.7 m Moderately gravelly, 6-20mm, fragments; Field	Yellowish brown (10YR5/8-Moist); , 0-0% ; Sandy loam; Single grain grade of structure; moist; 20-50%, fine gravelly, 2-6mm, rounded, , coarse fragments; 20-50%, medium rounded, , coarse fragments; 10-20%, coarse gravelly, 20-60mm, subrounded, , coarse pH 7 (Raupach); Few, coarse (>5mm) roots; Gradual change to -
B2cw 0.7 - 1 m 20-50%, fine rounded, , coarse 7 (Raupach); Few	Yellowish brown (10YR5/8-Moist); , 0-0% ; Massive grade of structure; Moderately moist; gravelly, 2-6mm, rounded, , coarse fragments; 20-50%, medium gravelly, 6-20mm, fragments; 10-20%, coarse gravelly, 20-60mm, subrounded, , coarse fragments; Field pH Few

Morphological Notes

B2cw +MSL

Observation Notes

Site Notes

Paddock opposite is cleared and in a crop/pasture rotation.

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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 - 0.07	5.2B									
0.15 - 0.25	6B									
0.4 - 0.5	6B									
0.7 - 1	5.9B	3B	1A	2.1	0.32	0.17			3.59D	
	6.6H									
0.7 - 1	5.9B	3B	1A	2.1	0.32	0.17			3.59D	
	6.6H									

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m ³			%	
0 - 0.07											
0.15 - 0.25											
0.4 - 0.5											
0.7 - 1									69I		8.5
22.5											
0.7 - 1									69I		8.5
22.5											

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_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded