

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 1891 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 08/08/94	Elevation: 320 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6251580 AMG zone: 50	Runoff: No Data
Easting/Lat.: 491060 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: 20 metres
Elem. Type: Hillslope	Slope Category: No Data
Slope: 3 %	Aspect: 180 degrees

Surface Soil Condition Hardsetting, Hardsetting

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: Dy5.11
	Great Soil Group: N/A

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

Vegetation:

Surface Coarse 2-10%, medium gravelly, 6-20mm, subrounded, ; 2-10%, , angular, Quartz

Profile

A1	0 - 0.12 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moist;
		20-50%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; 20-50%, medium gravelly, 6-20mm, rounded, , coarse fragments; Field pH 6.5 (Raupach); Abrupt change to -
A3	0.12 - 0.25 m	Brown (10YR5/3-Moist); , 0-0% ; Sandy loam; Single grain grade of structure; Moist; 20-50%, medium
		gravelly, 6-20mm, rounded, , coarse fragments; Field pH 6 (Raupach); Clear change to -
B1	0.25 - 0.35 m	Light yellowish brown (10YR6/4-Moist); Mottles, 7.5YR56, 10-20% , 5-15mm, Distinct;
		Sandy light clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; 10-20%, medium rounded, , coarse fragments; Field pH 5.5 (Raupach); Clear change to -
B21	0.35 - 0.6 m	Brownish yellow (10YR6/6-Moist); Mottles, 7.5YR56, 10-20% , 5-15mm, Distinct; ,
		2.5YR46, 2-10% , 0-5mm, Distinct; Light medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist;
		Field pH 6 (Raupach); Clear change to -
B22	0.6 - 0.8 m	Yellowish brown (10YR5/8-Moist); Mottles, 2.5YR46, 10-20% , 5-15mm, Distinct; ,
		10YR72, 2-10% , 5-15mm, Faint; Light medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Field
		pH 6 (Raupach); Gradual change to -
B3	0.8 - 1.05 m	Yellowish brown (10YR5/8-Moist); Mottles, 2.5YR46, 20-50% , 15-30mm, Distinct; ,
		10YR72, 10-20% , 5-15mm, Distinct; Light medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist;
		20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Common (10 - 20 %), Ferruginous,
		Coarse (6 - 20 mm), Nodules; Field pH 5.5 (Raupach);

Morphological Notes

B21	Kaolinitic clay
B22	Kaolinitic clay

B3 Kaolinitic clay

Observation Notes

Site Notes

Site along Loton Road. Not on gravel ridge - located 50 m south of a large dolerite dyke trending NW-SE. Gravel on next south ridge.

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.1	4.9B									
0.15 - 0.25	4.6B									
0.25 - 0.45	4.5B	2B	0.3H	1.4	0.03	0.14	0.31J		1.87D	
	5.4H		0.3H	1.4	0.03	0.14	0.31J		1.87D	
	4.5B									
	5.4H									
0.25 - 0.45	4.5B	2B	0.3H	1.4	0.03	0.14	0.31J		1.87D	
	5.4H		0.3H	1.4	0.03	0.14	0.31J		1.87D	
	4.5B									
	5.4H									
0.4 - 0.5	4.9B									

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV	Size CS	Analysis FS %	Silt
0 - 0.1											
0.15 - 0.25											
0.25 - 0.45									59I		7.5
33.5									59I		7.5
									33.5		
0.25 - 0.45									59I		7.5
33.5									59I		7.5
									33.5		
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_CMRR 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