

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0986 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 06/07/93	Elevation: 298 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6319510 AMG zone: 50	Runoff: No Data
Easting/Lat.: 533620 Datum: AGD84	Drainage: Poorly 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: Undulating low hills 30-90m 3-10% **Pattern Type:** Low hills

Morph. Type: Mid-slope	Relief: 35 metres
Elem. Type: Hillslope	Slope Category: No Data
Slope: 3 %	Aspect: 180 degrees

Surface Soil Condition Firm

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: Dg4.11
	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, angular, Quartz; No surface coarse fragments

Profile

A1	0 - 0.1 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Loamy coarse sand; Single grain grade of structure; Wet;
		Loose consistence; Field pH 5.5 (Raupach); Many, very fine (0-1mm) roots; Abrupt, Wavy change to -
A3	0.1 - 0.3 m	Pale brown (10YR6/3-Moist); , 0-0% ; Coarse sandy loam; Weak grade of structure; Rough-ped fabric;
		Wet; 20-50%, fine gravelly, 2-6mm, subrounded, , coarse fragments; Common (10 - 20 %), Ferruginous,
		Coarse (6 - 20 mm), Nodules; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Clear change to -
B21	0.3 - 0.4 m	Pale yellow (2.5Y7/4-Moist); Mottles, 10YR68, 20-50% , 15-30mm, Distinct; Coarse sandy light clay;
		Moderate grade of structure; Rough-ped fabric; Wet; Many (20 - 50 %), Ferruginous,
		Medium (2 -6 mm), Soft segregations; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Clear change to -
B22	0.4 - 0.6 m	Pale yellow (2.5Y7/4-Moist); Mottles, 7.5YR58, 20-50% , 15-30mm, Prominent; Light medium clay;
		Moderate grade of structure; Rough-ped fabric; Wet; Field pH 6 (Raupach); Few, very fine (0-1mm) roots;

Morphological Notes

A3	Texture estimated only as too wet to texture.
B22	Water entered in this layer kaolinised clay.

Observation Notes

Site Notes

Jalloran Road - site is 250 metres downslope of breakaway.

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Observation 1

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	5.2B									
0.15 - 0.25	5.2B									
0.3 - 0.4	5.5B	4B	0.74H	1.56	0.03	0.23	0.02J		2.56D	
	6.2H									
0.3 - 0.4	5.5B	4B	0.74H	1.56	0.03	0.23	0.02J		2.56D	
	6.2H									
0.4 - 0.5	5.6B									

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 - 0.1											
0.15 - 0.25											
0.3 - 0.4									53.5l		6.5
40											
0.3 - 0.4									53.5l		6.5
40											
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 (Ca ²⁺ ,Mg ²⁺ ,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 (Mn ²⁺) 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
4B_AL_NR	Aluminium in 1:5 soil/0.01M calcium chloride extract - method 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