

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 2332 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	28/08/95	Elevation:	375 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6242750 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	522240 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:	Mid-slope	Relief:	20 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	4 %	Aspect:	0 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:	Dr2.12
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Cultivation. Rainfed

Vegetation:

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

Profile

A1	0 - 0.12 m	Dark brown (7.5YR3/4-Moist); , 0-0% ; Fine sandy loam; Massive grade of structure; Moderately moist;
		20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 10-20%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Field pH 5.5 (Raupach); Abrupt, Wavy change to -
B1	0.12 - 0.3 m	Yellowish red (5YR4/6-Moist); , 0-0% ; Clay loam, sandy; Massive grade of structure; Moist; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 10-20%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Field pH 5.5 (Raupach); Clear, Wavy change to -
B2	0.3 - 0.4 m	Yellowish red (5YR5/6-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Field pH 6 (Raupach); Abrupt change to -
C	0.4 - 0.5 m	Brownish yellow (10YR6/6-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Moderately moist; Field pH 7 (Raupach);

Morphological Notes

C Weathered granite

Observation Notes

Site Notes

Stephen Vlahos Omission Trial on Tim Trethowan's. Site in north-east corner. Typical soils for this trial site although depth to weathered rock is variable.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.07	5.9B 7H	10B	2.95A	2.83	0.18	0.4		6.36D	
0 - 0.07	5.9B 7H	10B	2.95A	2.83	0.18	0.4		6.36D	
0 - 0.07	5.9B 7H	10B	2.95A	2.83	0.18	0.4		6.36D	
0 - 0.1	5.1B								
0.1 - 0.3	5.4B 6H	10B	3.72H	4.07	0.28	0.32	0.03J	8.39D	
0.1 - 0.3	5.4B 6H	10B	3.72H	4.07	0.28	0.32	0.03J	8.39D	
0.15 - 0.25	4.6B								
0.3 - 0.4	7.4B 8.7H	25B	3.33E	7.1	0.21	3.74		14B 14.38D	26.71
0.3 - 0.4	7.4B 8.7H	25B	3.33E	7.1	0.21	3.74		14B 14.38D	26.71
0.3 - 0.4	7.4B 8.7H	25B	3.33E	7.1	0.21	3.74		14B 14.38D	26.71
0.4 - 0.5	5.5B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.07		1.84D						89I 6
0 - 0.07		1.84D						89I 6
0 - 0.07		1.84D						89I 6
0 - 0.1								
0.1 - 0.3		0.71D						39.5I 11
0.1 - 0.3		0.71D						39.5I 11
0.15 - 0.25								
0.3 - 0.4	<2C	0.18D						59I 9.5
0.3 - 0.4	<2C	0.18D						59I 9.5
0.3 - 0.4	<2C	0.18D						59I 9.5
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

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15C1_CA pretreatment for	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5, soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA salts	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble
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
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using 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 (CaCO ₃) - 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
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
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