Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0917** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	21/06/93	**Elevation:**	355 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6290530 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	553200 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:	Undulating low hills 30-90m 3-10%	**Pattern Type:**	Low hills
Morph. Type:	Upper-slope	**Relief:**	30 metres
Elem. Type:	Hillcrest	**Slope Category:**	No Data
Slope:	1 %	**Aspect:**	90 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: Calcic Subnatric Red Sodosol
ASC Confidence: No analytical data are available but confidence is fair.
Mapping Unit: N/A
Principal Profile Form: Db2.23
Great Soil Group: N/A

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

Vegetation:

Surface Coarse No surface coarse fragments; 2-10%, , subangular, Dolerite

Profile

A1 0 - 0.15 m Dark reddish brown (5YR3/3-Moist); , 0-0% ; Sandy loam; Weak grade of structure; Rough-ped fabric; Moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Clear change to -

A2 0.15 - 0.5 m Dark reddish brown (2.5YR3/4-Moist); , 0-0% ; Sandy loam; Weak grade of structure; Rough-ped fabric; Moist; Very weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Abrupt change to -

B1t 0.5 - 0.7 m Strong brown (7.5YR4/6-Moist); Mottles, 10R46, 20-50% , 0-5mm, Faint; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, Dolerite, coarse fragments; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach); Few, very fine (0-1mm) roots; Clear change to -

B2t 0.7 - 0.9 m Reddish brown (5YR4/4-Moist); , 0-0% ; Medium heavy clay; Strong grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach); Few, very fine (0-1mm) roots; Clear change to -

B3k 0.9 - 1 m Strong brown (7.5YR4/6-Moist); , 0-0% ; Clay loam; Massive grade of structure; Moderately moist; Firm consistence; Few (2 matrix is Moderately calcareous; Field pH 9.5 (Raupach); Few, very fine (0-1mm) roots;

Morphological Notes

A1 pH between 5.5 and 6.
A2 KS IN MSL pH @ 15.25 = 6. pH @ 40.50 = 7.

Observation Notes

Site Notes

Cartmeticup Road - immediately downslope of gneiss and dolerite outcrop.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.1	5.2B									
0.15 - 0.25	5.4B									
0.4 - 0.5	6.1B									
0.5 - 0.7	6.7B 8.2H	6B	7.84E	6.74	0.09	2.24		21B	16.91D	10.67
0.5 - 0.7	6.7B 8.2H	6B	7.84E	6.74	0.09	2.24		21B	16.91D	10.67
0.5 - 0.7	6.7B 8.2H	6B	7.84E	6.74	0.09	2.24		21B	16.91D	10.67
0.7 - 0.9	7.1B 8.6H	8B	10.89E	9.53	0.09	3.08		24B	23.59D	12.83
0.7 - 0.9	7.1B 8.6H	8B	10.89E	9.53	0.09	3.08		24B	23.59D	12.83
0.7 - 0.9	7.1B 8.6H	8B	10.89E	9.53	0.09	3.08		24B	23.59D	12.83

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis			
		Clay						GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1											
0.15 - 0.25											
0.4 - 0.5											
0.5 - 0.7	<2C								47I		7.5
45.5											
0.5 - 0.7	<2C								47I		7.5
45.5											
0.5 - 0.7	<2C								47I		7.5
45.5											
0.7 - 0.9	<2C								49.5I		9
41.5											
0.7 - 0.9	<2C								49.5I		9
41.5											
0.7 - 0.9	<2C								49.5I		9
41.5											

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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
19B_NR	Calcium Carbonate (CaCO3) - 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
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