Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **2313** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 28/02/95
Map Ref.:
Northing/Long.: 6265130 AMG zone: 50
Easting/Lat.: 542660 Datum: AGD84
Locality:
Elevation: 330 metres
Rainfall: No Data
Runoff: No Data
Drainage: Moderately well drained

Geology

ExposureType: Soil pit
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: Gently undulating rises 9-30m 1-3%
Pattern Type: Rises

Morph. Type: Upper-slope
Elem. Type: Hillcrest
Slope: 3 %
Relief: 20 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition

Surface flake

Erosion:

(wind); (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Dr2.22
Great Soil Group: N/A

Site

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

Vegetation:

Surface Coarse

No surface coarse fragments; 20-50%, , rounded, Dolerite

Profile

A1 0 - 0.1 m Dark brown (7.5YR3/2-Moist); , 0-0% ; Sandy loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Sandy (grains prominent) fabric; Dry; 10-20%, fine gravelly, 2-6mm, subangular, Dolerite, coarse fragments; Field pH 5.5 (Raupach); Clear change to -

A21 0.1 - 0.2 m Dark reddish brown (2.5YR3/4-Moist); , 0-0% ; Clayey sand; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Dry; 10-20%, fine gravelly, 2-6mm, subangular, Dolerite, coarse fragments; 10-20%, medium gravelly, 6-20mm, subangular, Dolerite, coarse fragments; Field pH 6 (Raupach); Gradual change to -

A22 0.2 - 0.3 m Reddish brown (5YR5/4-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Dry; 10-20%, fine gravelly, 2-6mm, subangular, Dolerite, coarse fragments; Field pH 6.5 (Raupach); Abrupt change to -

B2 0.3 - 0.6 m Red (2.5YR4/6-Moist); , 0-0% ; Medium clay; Strong grade of structure, 50-100 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; Field pH 7 (Raupach); Clear change to -

B3 0.6 - 0.9 m Strong brown (7.5YR4/6-Moist); , 2.5YR46, 2-10% , 15-30mm, Distinct; Clay loam, sandy; Moderate grade of structure, 20-50 mm, Polyhedral; Smooth-ped fabric; Dry; 20-50%, medium gravelly, 6-20mm, rounded, Dolerite, coarse fragments; Field pH 7.5 (Raupach); Clear change to -

C 0.9 - 1.2 m Strong brown (7.5YR4/6-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Dry; Field pH 7.5 (Raupach);

Morphological Notes

A21 Dolerite boulders and stones present
C Weathered dolerite

Observation Notes

Site Notes

Soil pit on Bronte Rundle's farm "Ucarro" CSIRO soil pit

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	4.7B 5.5H 4.7B 4.8B 5.4H	10B 11B	6.5H	1.2	0.59	0.13	0.22J		8.42D	
0 - 0.1	4.7B 5.5H 4.7B 4.8B 5.4H	10B 11B	6.5H	1.2	0.59	0.13	0.22J		8.42D	
0 - 0.1	4.7B 5.5H 4.7B 4.8B 5.4H	10B 11B	6.5H	1.2	0.59	0.13	0.22J		8.42D	
0 - 0.1	4.7B 5.5H 4.7B 4.8B 5.4H	10B 11B	6.5H	1.2	0.59	0.13	0.22J		8.42D	
0 - 0.1	4.7B 5.5H 4.7B 4.8B 5.4H	10B 11B	6.5H	1.2	0.59	0.13	0.22J		8.42D	
0.1 - 0.2	4.9B 5.9H 4.9B	4B	5.5H	1.2	0.31	0.13	0.12J		7.14D	
0.1 - 0.2	4.9B 5.9H 4.9B	4B	5.5H	1.2	0.31	0.13	0.12J		7.14D	
0.1 - 0.2	4.9B 5.9H 4.9B	4B	5.5H	1.2	0.31	0.13	0.12J		7.14D	
0.2 - 0.3	6B 7.4H	4B	7.7A	7.7	0.26	0.68			16.34D	
0.2 - 0.3	6B 7.4H	4B	7.7A	7.7	0.26	0.68			16.34D	
0.3 - 0.6	6B 7.3H	4B	7.8A	7.9	0.25	0.66			16.61D	
0.3 - 0.5	6.3B 7.4H	6B	7.6A	7.7	0.26	0.63			16.19D	
0.3 - 0.6	6B 7.3H	4B	7.8A	7.9	0.25	0.66			16.61D	
0.3 - 0.5	6.3B 7.4H	6B	7.6A	7.7	0.26	0.63			16.19D	
0.4 - 0.5	6.4B									
0.6 - 0.9	6.6B 7.7H	10B	14A	19	0.21	2.7			35.91D	
0.6 - 0.9	6.6B 7.7H	10B	14A	19	0.21	2.7			35.91D	

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0.9 - 1.2	6.8B 8.3H	6B	12E	15	0.15	3.4		30B	30.55D	11.33
0.9 - 1.2	6.8B 8.3H	6B	12E	15	0.15	3.4		30B	30.55D	11.33

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle CS	Size FS	Analysis Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		1.68D		230B	0.164E						10.9	9
		2D		260B	0.185E							
0 - 0.1		1.68D		230B	0.164E						10.9	9
		2D		260B	0.185E							
0 - 0.1		1.68D		230B	0.164E						10.9	9
		2D		260B	0.185E							
0 - 0.1		1.68D		230B	0.164E						10.9	9
		2D		260B	0.185E							
0 - 0.1		1.68D		230B	0.164E						10.9	9
		2D		260B	0.185E							
0.1 - 0.2		0.74D		120B	0.078E						10.4	10.5
0.1 - 0.2		0.74D		120B	0.078E						10.4	10.5
0.1 - 0.2		0.74D		120B	0.078E						10.4	10.5
0.2 - 0.3		0.35D		69B	0.047E						10.6	28.9
0.2 - 0.3		0.35D		69B	0.047E						10.6	28.9
0.3 - 0.6		0.34D		61B	0.038E						10.4	29.9
0.3 - 0.5		0.37D		61B	0.053E						10	49.5
0.3 - 0.6		0.34D		61B	0.038E						10.4	29.9
0.3 - 0.5		0.37D		61B	0.053E						10	49.5
0.4 - 0.5												
0.6 - 0.9		0.1D		83B	0.012E						13.6	25.9
0.6 - 0.9		0.1D		83B	0.012E						13.6	25.9
0.9 - 1.2	<2C	0.05D		63B	0.006E						10.2	20.1
0.9 - 1.2	<2C	0.05D		63B	0.006E						10.2	20.1

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
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
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
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
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
18A1_NR	Bicarbonate-extractable potassium (not recorded)
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
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
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9B_NR	Bicarbonate-extractable phosphorus (not recorded)
9H1	Anion storage capacity
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_20_75	20 to 75u particle size analysis, (method not recorded)
P10_75_106	75 to 106u particle size analysis, (method not recorded)
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10106_150	106 to 150u particle size analysis, (method not recorded)
P10150_180	150 to 180u particle size analysis, (method not recorded)
P10180_300	180 to 300u particle size analysis, (method not recorded)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)