Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **1581** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 11/02/94
Map Ref.:
Northing/Long.: 6284810 AMG zone: 50
Easting/Lat.: 541860 Datum: AGD84
Locality:
Elevation: 305 metres
Rainfall: No Data
Runoff: No Data
Drainage: Imperfectly 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: Hillslope
Slope: 1 %
Relief: 15 metres
Slope Category: No Data
Aspect: 315 degrees

Surface Soil Condition Loose

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

Soil Classification

Australian Soil Classification:
Eutrophic Hypernatric Brown Sodosol
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Dy4.12
Great Soil Group: N/A

Site Extensive clearing, for example poisoning, ringbarking

Vegetation:

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

Profile

A1 0 - 0.05 m Very dark grey (10YR3/1-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Dry; Loose consistence; Field pH 5.5 (Raupach); Many, very fine (0-1mm) roots; Abrupt, Wavy change to -

B2t 0.05 - 0.3 m Brown (7.5YR5/3-Moist); , 0-0% ; Medium clay; Moderate grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Dry; Strong consistence; Field pH 7 (Raupach); Common, fine (1-2mm) roots; Clear, Wavy change to -

C 0.3 - 1.2 m Light grey (10YR7/2-Moist); Mottles, 2.5YR44, 2-10% , 30-mm, Distinct; Light clay; Weak grade of structure, 20-50 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; Field pH 7 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

C White clay - kaolinised 30-85cm 85 - 120cm

Observation Notes

Site Notes

Moojebing Soil pit 6 (Ian Garstone)

Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **1581** **Observation** **1**
Agency Name: **Agriculture Western Australia**

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.05	5.2B 5.5H 5.3B	190B	15H	12	0.62	4.7	0.03J		32.32D	

0 - 0.1	5.4B 5.9H 5.4B 5.9H	180B							
0 - 0.05	5.2B 5.5H 5.3B	190B	15H	12	0.62	4.7	0.03J		32.32D
0 - 0.05	5.2B 5.5H 5.3B	190B	15H	12	0.62	4.7	0.03J		32.32D
0 - 0.1	5.4B 5.9H 5.4B 5.9H	180B							
0 - 0.1	5.4B 5.9H 5.4B 5.9H	180B							
0 - 0.1	5.4B 5.9H 5.4B 5.9H	180B							
0.05 - 0.25	6.1B 6.6H	210B	2.4A	7.2	0.92	4			14.52D
0.05 - 0.25	6.1B 6.6H	210B	2.4A	7.2	0.92	4			14.52D
0.15 - 0.25	5.6B								
0.25 - 0.3	6.3B 6.8H	260B	1.6A	7.1	0.86	5			14.56D
0.25 - 0.3	6.3B 6.8H	260B	1.6A	7.1	0.86	5			14.56D
0.3 - 0.8	6.6B 6.7H	650B	0.28A	5.8	0.64	4.7			11.42D
0.3 - 0.8	6.6B 6.7H	650B	0.28A	5.8	0.64	4.7			11.42D
0.4 - 0.5	6.4B								
0.8 - 1.2	6.6B 6.7H	1000B	0.22A	4.5	0.54	5.8			11.06D
0.8 - 1.2	6.6B 6.7H	1000B	0.22A	4.5	0.54	5.8			11.06D

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 - 0.05 6		12D		550B	0.649E						6.9
0 - 0.1		4.96D 4.96D		230B 230B	0.223E 0.223E						

Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **1581** **Observation** **1**
Agency Name: **Agriculture Western Australia**

0 - 0.05	12D	550B	0.649E		6.9
6					
0 - 0.05	12D	550B	0.649E		6.9
6					
0 - 0.1	4.96D	230B	0.223E		
	4.96D	230B	0.223E		
0 - 0.1	4.96D	230B	0.223E		
	4.96D	230B	0.223E		
0 - 0.1	4.96D	230B	0.223E		
	4.96D	230B	0.223E		
0.05 - 0.25	1.32D	100B	0.061E		10.3
41.2					
0.05 - 0.25	1.32D	100B	0.061E		10.3
41.2					
0.15 - 0.25					
0.25 - 0.3	0.85D	73B	0.038E		8.7
50.8					
0.25 - 0.3	0.85D	73B	0.038E		8.7
50.8					
0.3 - 0.8	0.27D	40B	0.015E		5.6
61.6					
0.3 - 0.8	0.27D	40B	0.015E		5.6
61.6					
0.4 - 0.5					
0.8 - 1.2	0.22D	38B	0.008E		6.5
45.8					
0.8 - 1.2	0.22D	38B	0.008E		6.5
45.8					

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
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)
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)