

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0722 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 19/02/92
Map Ref.:
Northing/Long.: 6330790 AMG zone: 50
Easting/Lat.: 537640 Datum: AGD84
Locality:
Elevation: 323 metres
Rainfall: No Data
Runoff: No Data
Drainage: 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: Mid-slope
Elem. Type: Hillslope
Slope: 3 %
Relief: 15 metres
Slope Category: No Data
Aspect: 90 degrees

Surface Soil Condition Loose

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

Soil Classification

Australian Soil Classification:
 Basic Ferric-Petroferric Leptic Tenosol
ASC Confidence:
 All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Uc4.11
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, rounded, ; 2-10%, , subrounded,

Profile

A1 0 - 0.1 m Grey (10YR5/1-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Dry; Loose
 consistence;
 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; 10-20%, fine
 gravelly, 2-6mm,
 angular, Quartz, coarse fragments; Strongly water repellent, "Field pH 5.5 (Raupach);
 Many, fine (1-
 2mm) roots; Clear, Wavy change to -
 A2 0.1 - 0.2 m Greyish brown (10YR5/2-Moist); , 0-0% ; Single grain grade of structure; Dry; Loose
 consistence; 50-
 90%, medium gravelly, 6-20mm, subrounded, , coarse fragments; 10-20%, coarse
 gravelly, 20-60mm,
 subrounded, , coarse fragments; 10-20%, fine gravelly, 2-6mm, subrounded, , coarse
 fragments; Field
 pH 6 (Raupach); Many, fine (1-2mm) roots; Abrupt, Tongued change to -
 Ccm 0.2 - 0.9 m ; Massive grade of structure;

Morphological Notes

Ccm Cemented ferricrete, roots in cracks

Observation Notes

Site Notes

Buchanan catchment soil pit 1

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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	5.1B 5.8H	14B 8B	3.65H	0.69	0.29	0.1	0.07J		4.73D	

	5B								
	5.8H								
	5B								
0 - 0.1	5.1B	14B	3.65H	0.69	0.29	0.1	0.07J		4.73D
	5.8H	8B							
	5B								
	5.8H								
	5B								
0 - 0.1	5.1B	14B	3.65H	0.69	0.29	0.1	0.07J		4.73D
	5.8H	8B							
	5B								
	5.8H								
	5B								
0 - 0.1	5.1B	14B	3.65H	0.69	0.29	0.1	0.07J		4.73D
	5.8H	8B							
	5B								
	5.8H								
	5B								
0 - 0.1	5.1B	14B	3.65H	0.69	0.29	0.1	0.07J		4.73D
	5.8H	8B							
	5B								
	5.8H								
	5B								
0.05 - 0.15	4.9B								
	4.9B								
0.05 - 0.15	4.9B								
	4.9B								
0.1 - 0.2	5B	2B	1.31H	0.24	0.05	0.02	0.07J		1.62D
	6H								
0.1 - 0.2	5B	2B	1.31H	0.24	0.05	0.02	0.07J		1.62D
	6H								

Depth	CaCO ₃	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	
m	%	Clay %	mg/kg	%	%	%	Mg/m ³	GV CS FS Silt	
0 - 0.1		1.84D		150B	0.129E				3
3.4									
		1.77D		150B	0.114E				
0 - 0.1		1.84D		150B	0.129E				3
3.4									
		1.77D		150B	0.114E				
0 - 0.1		1.84D		150B	0.129E				3
3.4									
		1.77D		150B	0.114E				
0 - 0.1		1.84D		150B	0.129E				3
3.4									
		1.77D		150B	0.114E				
0 - 0.1									
3.4									
		1.77D		150B	0.114E				
0.05 - 0.15									
0.05 - 0.15									
0.1 - 0.2		0.53D		35B	0.033E				3.3
4.8									

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0.1 - 0.2 0.53D 35B 0.033E 3.3
 4.8

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMd	Exchangeable bases (Ca/Mg ratio) - Not recorded
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_BASdS	Sum of Bases
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)