

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0725 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	19/02/93	Elevation:	355 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6329510 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	536120 Datum: AGD84	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	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:	35 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	4 %	Aspect:	270 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Bleached-Mottled Natric Grey Kurosol	Principal Profile Form:	Dg1.81
ASC Confidence:	Great Soil Group:	N/A

All necessary analytical data are available.

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

Vegetation:

Surface Coarse 20-50%, medium gravelly, 6-20mm, angular, Quartz; No surface coarse fragments

Profile

A1	0 - 0.1 m	Dark grey (10YR4/1-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Dry; Very weak
		consistence; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 6
		(Raupach); Many, fine (1-2mm) roots; Sharp, Smooth change to -
A2e	0.1 - 0.2 m	Very pale brown (10YR7/3-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Dry; Very weak
		consistence; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 2-10%, medium
		gravelly, 6-20mm, subangular, Quartz, coarse fragments; Field pH 5.5 (Raupach);
		2mm) roots; Clear, Smooth change to -
B2t	0.2 - 0.4 m	Light grey (10YR7/1-Moist); Mottles, 10R48, 2-10% , 5-15mm, Prominent; Coarse sandy light clay;
		Massive grade of structure; Dry; Very firm consistence; 20-50%, fine gravelly, 2-6mm, subangular,
		Quartz, coarse fragments; Field pH 5 (Raupach); Gradual change to -
C	0.4 - 1.5 m	White (10YR8/2-Moist); Mottles, 10YR56, 2-10% , 15-30mm, Distinct; Mottles, 2.5YR66, 2-10% , 15-30mm, Faint; Light clay; Massive grade of structure; Dry; Strong consistence; Field pH 5.5 (Raupach);

Morphological Notes

B2t	Kaolinised clay. Floaters of weathered rock present
C	Weathered gneiss. Kaolinised clay

Observation Notes

Site Notes

Buchanan catchment soil pit 5, 30m downslope of granite rock outcrop; Magnesic in C horizon

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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	5.2B 6.1H 5.5B 6.2H 5.1B	9B 12B	4.54H	0.98	0.38	0.16	0.08J		6.06D	
0 - 0.1	5.2B 6.1H 5.5B 6.2H 5.1B	9B 12B	4.54H	0.98	0.38	0.16	0.08J		6.06D	
0 - 0.1	5.2B 6.1H 5.5B 6.2H 5.1B	9B 12B	4.54H	0.98	0.38	0.16	0.08J		6.06D	
0 - 0.1	5.2B 6.1H 5.5B 6.2H 5.1B	9B 12B	4.54H	0.98	0.38	0.16	0.08J		6.06D	
0 - 0.1	5.2B 6.1H 5.5B 6.2H 5.1B	9B 12B	4.54H	0.98	0.38	0.16	0.08J		6.06D	
0.05 - 0.15	4.3B									
0.05 - 0.15	4.3B									
0.1 - 0.4	4.4B 5.2H	4B	0.48H	0.2	0.07	0.07	0.46J		0.82D	
0.1 - 0.4	4.4B 5.2H	4B	0.48H	0.2	0.07	0.07	0.46J		0.82D	
0.2 - 0.4	4B 5.1H	6B	0.42H	0.67	0.13	0.37	0.43J		1.59D	
0.2 - 0.4	4B 5.1H	6B	0.42H	0.67	0.13	0.37	0.43J		1.59D	
0.4 - 0.8	3.9B 5H	13B	0.1H	2.61	0.1	1.58	0.31J		4.39D	
0.4 - 0.8	3.9B 5H	13B	0.1H	2.61	0.1	1.58	0.31J		4.39D	
0.4 - 0.5	3.9B									

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 - 0.1 3.8		1.85D		220B	0.128E			4.6
0 - 0.1 3.8		2.12D 1.85D		230B 220B	0.148E 0.128E			4.6
		2.12D		230B	0.148E			

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0 - 0.1 3.8	1.85D	220B	0.128E	4.6
0 - 0.1 3.8	2.12D 1.85D	230B 220B	0.148E 0.128E	4.6
0 - 0.1 3.8	2.12D 1.85D	230B 220B	0.148E 0.128E	4.6
0.05 - 0.15 0.05 - 0.15	2.12D	230B	0.148E	
0.1 - 0.4 7	0.33D	69B	0.028E	5.8
0.1 - 0.4 7	0.33D	69B	0.028E	5.8
0.2 - 0.4 15.4	0.15D	51B	0.014E	13.1
0.2 - 0.4 15.4	0.15D	51B	0.014E	13.1
0.4 - 0.8 32.5	0.09D	25B	0.01E	16.6
0.4 - 0.8 32.5 0.4 - 0.5	0.09D	25B	0.01E	16.6

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMdR	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)