

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 2318 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 12/04/95	Elevation: 290 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6302510 AMG zone: 50	Runoff: No Data
Easting/Lat.: 513240 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 rises 9-30m 3-10%	Pattern Type: Rises
Morph. Type: Mid-slope	Relief: 15 metres
Elem. Type: Hillslope	Slope Category: No Data
Slope: 4 %	Aspect: 0 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: N/A	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: Dy2.22
	Great Soil Group: N/A

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

Vegetation:

Surface Coarse 2-10%, medium gravelly, 6-20mm, subangular, Gabbro; 2-10%, , subangular, Gneiss

Profile

A1 0 - 0.1 m firm 10%, medium Common, very fine	Dark brown (7.5YR3/3-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Dry; Very consistence; 20-50%, fine gravelly, 2-6mm, subangular, Gabbro, coarse fragments; 2-gravelly, 6-20mm, subangular, Gabbro, coarse fragments; Field pH 5.5 (Raupach); (0-1mm) roots; Abrupt, Smooth change to -
A2 0.1 - 0.3 m Dry; Very firm 20%, medium fine (0-1mm)	Strong brown (7.5YR4/6-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; consistence; 10-20%, fine gravelly, 2-6mm, subangular, Gabbro, coarse fragments; 10-gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6.5 (Raupach); Few, very roots; Gradual, Smooth change to -
B21 0.3 - 0.6 m structure, 10-20 mm, subangular, fragments; Field	Yellowish brown (10YR5/8-Moist); , 0-0% ; Sandy light medium clay; Weak grade of Polyhedral; Rough-ped fabric; Dry; Strong consistence; 20-50%, fine gravelly, 2-6mm, Gabbro, coarse fragments; 10-20%, medium gravelly, 6-20mm, subrounded, , coarse pH 6.5 (Raupach); Few, very fine (0-1mm) roots;
B22t 0.6 - 0.95 m Strong grade fine gravelly, 1mm) roots;	Yellowish brown (10YR5/8-Moist); Mottles, 10YR72, 2-10% , 0-5mm, Faint; Medium clay; of structure, 50-100 mm, Prismatic; Smooth-ped fabric; Dry; Strong consistence; 10-20%, 2-6mm, subangular, Gabbro, coarse fragments; Field pH 6 (Raupach); Few, very fine (0-1mm) roots;
B3 0.95 - 1.1 m structure; Dry;	Yellowish brown (10YR5/6-Moist); ; Coarse sandy light medium clay; Massive grade of Very strong consistence; Field pH 6.5 (Raupach);

Morphological Notes

Observation Notes

Site Notes

Soil pit in Wedgecarrup catchment - on edge of dolerite dyke

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Observation 1

Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.1	4.8B 5.6H 4.8B 5.6H	10B 14B	4H	0.72	0.41	0.22	0.14J		5.35D	
0 - 0.1	4.8B 5.6H 4.8B 5.6H	10B 14B	4H	0.72	0.41	0.22	0.14J		5.35D	
0 - 0.1	4.8B 5.6H 4.8B 5.6H	10B 14B	4H	0.72	0.41	0.22	0.14J		5.35D	
0 - 0.1	4.8B 5.6H 4.8B 5.6H	10B 14B	4H	0.72	0.41	0.22	0.14J		5.35D	
0.1 - 0.3	5.1B 6.4H	2B	2H	0.54	0.07	0.08	<0.02J		2.69D	
0.1 - 0.3	5.1B 6.4H	2B	2H	0.54	0.07	0.08	<0.02J		2.69D	
0.3 - 0.5	6.2B 7.2H	4B	2.8A	2.4	0.06	0.31			5.57D	
0.3 - 0.5	6.2B 7.2H	4B	2.8A	2.4	0.06	0.31			5.57D	
0.5 - 0.6	5.8B 7H	4B	3.2A	4.3	0.08	0.53			8.11D	
0.5 - 0.6	5.8B 7H	4B	3.2A	4.3	0.08	0.53			8.11D	
0.6 - 0.8	5.7B 7H	5B	5.4A	8.4	0.14	1			14.94D	
0.6 - 0.8	5.7B 7H	5B	5.4A	8.4	0.14	1			14.94D	
0.8 - 0.95	5.6B 7H	5B	5.4A	8.7	0.14	1.1			15.34D	
0.8 - 0.95	5.6B 7H	5B	5.4A	8.7	0.14	1.1			15.34D	

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV CS	Size FS %	Analysis Silt
0 - 0.1 9		1.6D		200B	0.14E					10.6
0 - 0.1 9		1.62D 1.6D		190B 200B	0.137E 0.14E					10.6
0 - 0.1 9		1.62D 1.6D		190B 200B	0.137E 0.14E					10.6
0 - 0.1 9		1.62D 1.6D		190B 200B	0.137E 0.14E					10.6
0.1 - 0.3 9.3		1.62D 0.29D		190B 54B	0.137E 0.026E					8.1
0.1 - 0.3		0.29D		54B	0.026E					8.1

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0.3 - 0.5 23.2	0.13D	52B	0.019E	8.1
0.3 - 0.5 23.2	0.13D	52B	0.019E	8.1
0.5 - 0.6 35	0.13D	53B	0.018E	12.4
0.5 - 0.6 35	0.13D	53B	0.018E	12.4
0.6 - 0.8 51.2	0.1D	31B	0.015E	10.2
0.6 - 0.8 51.2	0.1D	31B	0.015E	10.2
0.8 - 0.95 46.7	0.09D	22B	0.014E	10.8
0.8 - 0.95 46.7	0.09D	22B	0.014E	10.8

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA salts	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)