Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0150** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	26/03/92	**Elevation:**	295 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6252810 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	487480 Datum: AGD84	**Drainage:**	Rapidly 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:**	25 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	6 %	**Aspect:**	135 degrees

Surface Soil Condition Loose

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

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
Basic Ferric Bleached-Orthic Tenosol **Principal Profile Form:** Uc2.21
ASC Confidence: **Great Soil Group:** N/A
All necessary analytical data are available.

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

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A1 0 - 0.15 m Dark grey (10YR4/1-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Water repellent; Field pH 5 (Raupach); Common, fine (1-2mm) roots; Abrupt, Wavy change to -

A2e 0.15 - 0.5 m Light brownish grey (10YR6/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Field pH 7 (Raupach); Few, coarse (>5mm) roots; Gradual, Tongued change to -

B1 0.5 - 0.9 m Yellowish brown (10YR5/8-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Few (2 - 10 %), Ferruginous, Extremely coarse (> 60 mm), Nodules; Field pH 6.5 (Raupach); Many, medium (2-5mm) roots; Clear, Smooth change to -

B2c 0.9 - 1.2 m Yellow (10YR7/6-Moist); Mottles, 10YR68, 10-20% , 15-30mm, Distinct; Coarse sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; 50-90%, subrounded, Ironstone, coarse fragments; Very many (50 - 100 %), Ferruginous, Very coarse (20 - 60 mm), Nodules; Field pH 7 (Raupach); Few, fine (1-2mm) roots; Clear, Irregular change to -

B3 1.2 - 1.5 m Yellow (2.5Y7/6-Moist); Mottles, 7.5YR58, 10-20% , 15-30mm, Distinct; Sandy clay loam; Massive grade of structure; Moderately moist; 20-50%, subrounded, Ironstone, coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 7.5 (Raupach); Few, very fine (0-1mm) roots;

Morphological Notes

B1 + COARSE SAND
B3 MOIST BELOW 150CM. SUBPLASTIC

Observation Notes

Site Notes

[ignored B3 (SCL layer) in classification, otherwise Basic Ferric Yellow Chromosol]

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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 - 0.15	4.6B 5.7H	3B	1.13H	0.16	0.03	0.03	0.14J		1.35D	
0 - 0.1	4.7B 5.9H	3B								
0 - 0.15	4.6B 5.7H	3B	1.13H	0.16	0.03	0.03	0.14J		1.35D	
0 - 0.1	4.7B 5.9H	3B								
0.15 - 0.5	5B 6.1H	1B	0.13H	0.08	<0.02	<0.02	0.04J		0.23D	
0.15 - 0.5	5B 6.1H	1B	0.13H	0.08	<0.02	<0.02	0.04J		0.23D	
0.5 - 0.9	5.2B 6.4H	2B	0.26H	0.27	0.02	0.06	0.06J		0.61D	
0.5 - 0.9	5.2B 6.4H	2B	0.26H	0.27	0.02	0.06	0.06J		0.61D	
0.9 - 1.2	5.6B 6.6H 5.7B 6.8H	3B 2B	0.35H 0.23A	0.58 0.68	0.13 0.11	0.22 0.24	0.02J		1.28D 1.26D	
0.9 - 1.2	5.6B 6.6H 5.7B 6.8H	3B 2B	0.35H 0.23A	0.58 0.68	0.13 0.11	0.22 0.24	0.02J		1.28D 1.26D	
0.9 - 1.2	5.6B 6.6H 5.7B 6.8H	3B 2B	0.35H 0.23A	0.58 0.68	0.13 0.11	0.22 0.24	0.02J		1.28D 1.26D	
0.9 - 1.2	5.6B 6.6H 5.7B 6.8H	3B 2B	0.35H 0.23A	0.58 0.68	0.13 0.11	0.22 0.24	0.02J		1.28D 1.26D	
1.2 - 1.5	6.1B 6.7H	3B	0.04A	1.9	<0.02	0.24			2.19D	
1.2 - 1.5	6.1B 6.7H	3B	0.04A	1.9	<0.02	0.24			2.19D	
1.2 - 1.5	6.1B 6.7H	3B	0.04A	1.9	<0.02	0.24			2.19D	

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 - 0.15		0.5D		52B	0.028E						0.3	1.6
0 - 0.1		1.06D		79B	0.061E							
0 - 0.15		0.5D		52B	0.028E						0.3	1.6
0 - 0.1		1.06D		79B	0.061E							
0.15 - 0.5		0.09D		19B	0.006E						0.7	0.9
0.15 - 0.5		0.09D		19B	0.006E						0.7	0.9
0.5 - 0.9		0.14D		18B	0.01E						0.4	6.1
0.5 - 0.9		0.14D		18B	0.01E						0.4	6.1

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0.9 - 1.2 6.1	0.16D	35B	0.011E	1.3
	0.2D 6.1	41B	0.012E	1.9
0.9 - 1.2 6.1	0.16D	35B	0.011E	1.3
	0.2D 6.1	41B	0.012E	1.9
0.9 - 1.2 6.1	0.16D	35B	0.011E	1.3
	0.2D 6.1	41B	0.012E	1.9
0.9 - 1.2 6.1	0.16D	35B	0.011E	1.3
	0.2D 6.1	41B	0.012E	1.9
1.2 - 1.5 22	0.16D	30B	0.01E	1.7
1.2 - 1.5 22	0.16D	30B	0.01E	1.7
1.2 - 1.5 22	0.16D	30B	0.01E	1.7

Laboratory Analyses Completed for this profile

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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)