

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 1530 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 28/10/93	Elevation: 279 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6307190 AMG zone: 50	Runoff: No Data
Easting/Lat.: 589870 Datum: AGD84	Drainage: Poorly drained

Geology

ExposureType: Auger boring	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data	Substrate Material: No Data

Land Form

Rel/Slope Class: Level plain <9m <1%	Pattern Type: Alluvial plain
Morph. Type: Flat	Relief: 1 metres
Elem. Type: Plain	Slope Category: No Data
Slope: 0 %	Aspect: No Data

Surface Soil Condition Cracking, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Epicalcareous-Epihypersodic Massive Grey Vertosol	Principal Profile Form: Ug6.5
ASC Confidence:	Great Soil Group: N/A
Confidence level not specified	

Site Cultivation. Rainfed

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A1	0 - 0.02 m	Brown (10YR4/3-Moist); , 0-0% ; Light medium clay; Massive grade of structure; Dry; Soil matrix is
		Highly calcareous; Field pH 9.5 (Raupach); Wavy change to -
B21k	0.02 - 0.4 m	Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Medium clay; Strong grade of structure,
		Polyhedral;
		Rough-ped fabric; Moderately moist; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft
		segregations;
		Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Soil matrix is Highly
		calcareous; Field pH
		9.5 (Raupach); Gradual change to -
B22	0.4 - 0.6 m	Light brownish grey (2.5Y6/3-Moist); Mottles, 2.5YR44, 2-10% , 5-15mm, Faint; Medium
		clay; Moderate
		grade of structure; Moderately moist; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm),
		Nodules; Soil
		matrix is Slightly calcareous; Field pH 9.5 (Raupach); Gradual change to -
B31	0.6 - 1 m	Greyish brown (2.5Y5/2-Moist); Mottles, 5YR54, 20-50% , 5-15mm, Faint; Medium heavy
		clay; Strong
		grade of structure; Smooth-ped fabric; Moderately moist; Field pH 6 (Raupach); Gradual
		change to -
B32	1 - 1.2 m	Light brownish grey (2.5Y6/2-Moist); Mottles, 5YR54, 20-50% , 15-30mm, Faint; Heavy
		clay; Strong
		grade of structure; Smooth-ped fabric; Moderately moist; Field pH 5 (Raupach);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Cations Mg	K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0.02 - 0.4	8.4B 9H	140B	4.65E	6.94	0.3	5		16B	16.89D	31.25
0.02 - 0.4	8.4B 9H	140B	4.65E	6.94	0.3	5		16B	16.89D	31.25
0.02 - 0.4	8.4B 9H	140B	4.65E	6.94	0.3	5		16B	16.89D	31.25
0.4 - 0.6	8.2B 8.7H	180B	4.55E	7.28	0.43	6.34		19B	18.6D	33.37
0.4 - 0.6	8.2B 8.7H	180B	4.55E	7.28	0.43	6.34		19B	18.6D	33.37
0.4 - 0.6	8.2B 8.7H	180B	4.55E	7.28	0.43	6.34		19B	18.6D	33.37
0.6 - 1	6.5B 7H	200B	3.52A	7.78	0.4	5.43			17.13D	
0.6 - 1	6.5B 7H	200B	3.52A	7.78	0.4	5.43			17.13D	
1 - 1.2	4.2B 4.6H	230B	1.91H	7.34	0.35	4.7	0.24J		14.3D	
1 - 1.2	4.2B 4.6H	230B	1.91H	7.34	0.35	4.7	0.24J		14.3D	

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
0.02 - 0.4 50.5	<2C							40.5I		9
0.02 - 0.4 50.5	<2C							40.5I		9
0.02 - 0.4 50.5	<2C							40.5I		9
0.4 - 0.6 59.5	<2C							30.5I		10
0.4 - 0.6 59.5	<2C							30.5I		10
0.4 - 0.6 59.5	<2C							30.5I		10
0.6 - 1 60.5								29I		10.5
0.6 - 1 60.5								29I		10.5
1 - 1.2 61								28.5I		10.5
1 - 1.2 61								28.5I		10.5

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM	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
15C1_CA pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,

soluble salts
15C1_CEC CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts

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15C1_K soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA salts	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble
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 (Mn ²⁺) 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 Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
	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
19B_NR	Calcium Carbonate (CaCO ₃) - Not recorded
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded