

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 1558 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Heather Percy  
**Date Desc.:** 03/11/93  
**Map Ref.:**  
**Northing/Long.:** 6297040 AMG zone: 50  
**Easting/Lat.:** 577120 Datum: AGD84  
**Locality:**  
**Elevation:** 288 metres  
**Rainfall:** No Data  
**Runoff:** No Data  
**Drainage:** Moderately well drained

#### Geology

**ExposureType:** Auger boring  
**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:** 1 %  
**Relief:** 25 metres  
**Slope Category:** No Data  
**Aspect:** 0 degrees

#### Surface Soil Condition Hardsetting, Hardsetting

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

#### Soil Classification

**Australian Soil Classification:** N/A  
**ASC Confidence:** Confidence level not specified  
**Mapping Unit:** N/A  
**Principal Profile Form:** Db1.13  
**Great Soil Group:** N/A

**Site** Cultivation. Rainfed

#### Vegetation:

**Surface Coarse** 10-20%, medium gravelly, 6-20mm, angular, Quartz; 2-10%, , subangular, Granite

#### Profile

**A1** 0 - 0.1 m Brown (7.5YR4/3-Moist); , 0-0% ; Loam; Massive grade of structure; Dry; 20-50%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 6.5 (Raupach); Abrupt change to -  
**B1** 0.1 - 0.35 m Brown (7.5YR4/4-Moist); , 0-0% ; Light medium clay; Weak grade of structure; Rough-ped fabric; Moderately moist; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach); Gradual change to -  
**B21k** 0.35 - 0.6 m Strong brown (7.5YR4/6-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; Common (10 - 20 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach); Gradual change to -  
**B22** 0.6 - 0.9 m Yellowish red (5YR5/6-Moist); Mottles, 10YR81, 0-2% , 5-15mm, Distinct; Medium heavy clay; Strong grade of structure; Smooth-ped fabric; Moderately moist; Common (10 - 20 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 8.5 (Raupach);

#### Morphological Notes

#### Observation Notes

#### Site Notes

Site along road verge of Pepall Road

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#### Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations	Exchangeable	CEC	ECEC	ESP
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m	dS/m	Ca	Mg	K	Na	Acidity			%
0.1 - 0.3	8.6B 9.2H	210B	3.05E	10.29	2.39	7.66	23B	23.39D	33.30
0.1 - 0.3	8.6B 9.2H	210B	3.05E	10.29	2.39	7.66	23B	23.39D	33.30
0.1 - 0.3	8.6B 9.2H	210B	3.05E	10.29	2.39	7.66	23B	23.39D	33.30

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0.1 - 0.3 51.5	7C								38I		10.5
0.1 - 0.3 51.5	7C								38I		10.5
0.1 - 0.3 51.5	7C								38I		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_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	
	soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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
19B_NR	Calcium Carbonate (CaCO3) - 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