

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0076 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Heather Percy  
**Date Desc.:** 25/10/91  
**Map Ref.:**  
**Northing/Long.:** 6265080 AMG zone: 50  
**Easting/Lat.:** 588070 Datum: AGD84  
**Locality:**  
**Elevation:** 299 metres  
**Rainfall:** No Data  
**Runoff:** No Data  
**Drainage:** No Data

#### 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:** 2 %  
**Relief:** 20 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:** Dr3.13  
**Great Soil Group:** N/A

**Site** Cultivation. Rainfed

#### Vegetation:

**Surface Coarse** 20-50%, medium gravelly, 6-20mm, subangular, Ferricrete; 0-2%, , subrounded,

Dolerite

#### Profile

A1 0 - 0.07 m Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Dry; Field pH 6.5  
 (Raupach); Abundant, fine (1-2mm) roots; Clear change to -  
 B21 0.07 - 0.4 m Yellowish red (5YR4/6-Moist); Mottles, 7.5YR42, 20-50% , 5-15mm, Distinct; Sandy medium clay; Strong  
 grade of structure; Rough-ped fabric; Dry; Field pH 8 (Raupach); Common, medium (2-5mm) roots;  
 Gradual change to -  
 B22 0.4 - 0.5 m Yellowish brown (10YR5/4-Moist); Mottles, 7.5YR54, 20-50% , 5-15mm, Faint; Medium clay; Moderate  
 grade of structure; Rough-ped fabric; Dry; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft  
 segregations; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; Soil matrix is Highly  
 calcareous; Field pH 9.5 (Raupach); Common, medium (2-5mm) roots; Gradual change to -  
 B23 0.5 - 0.55 m Brownish yellow (10YR6/6-Moist); , 0-0% ; Medium clay; Weak grade of structure; Rough-ped fabric;  
 Dry; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Many (20 - 50 %),  
 Calcareous, Medium (2 -6 mm), Concretions; Soil matrix is Very highly calcareous; Field pH 9.5  
 (Raupach);

#### Morphological Notes

B21 SAMPLED  
 B22 +S

#### Observation Notes

#### Site Notes

Dolerite dyke may be adjacent with grey clays

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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				%
0.07 - 0.4	6.6B 7.7H	31B	4.71A	5.88	0.57	1.82			12.98D	
0.07 - 0.4	6.6B 7.7H	31B	4.71A	5.88	0.57	1.82			12.98D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3				%
0.07 - 0.4 23									72I		5
0.07 - 0.4 23									72I		5

**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
15A1_CEC	salts
15A1_K for soluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts
15J_BASES	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15L1_a Sum of Cations	Sum of Bases
	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
15N1_a	and measured clay
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
3_NR	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
4_NR	Electrical conductivity or soluble salts - Not recorded
4B1	pH of soil - Not recorded
P10_gt2m	pH of 1:5 soil/0.01M calcium chloride extract - direct
P10_NR_C	> 2mm particle size analysis, (method not recorded)
P10_NR_S	Clay (%) - Not recorded
P10_NR_Z	Sand (%) - Not recorded
	Silt (%) - Not recorded