

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 1033 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b> Heather Percy	<b>Locality:</b>
<b>Date Desc.:</b> 16/07/93	<b>Elevation:</b> 277 metres
<b>Map Ref.:</b>	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6326300 AMG zone: 50	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 519660 Datum: AGD84	<b>Drainage:</b> Imperfectly drained

#### Geology

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

#### Land Form

**Rel/Slope Class:** Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

<b>Morph. Type:</b> Lower-slope	<b>Relief:</b> 12 metres
<b>Elem. Type:</b> Hillslope	<b>Slope Category:</b> No Data
<b>Slope:</b> 1 %	<b>Aspect:</b> 180 degrees

#### Surface Soil Condition Hardsetting, Hardsetting

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

#### Soil Classification

<b>Australian Soil Classification:</b> N/A	<b>Mapping Unit:</b> N/A
<b>ASC Confidence:</b> Confidence level not specified	<b>Principal Profile Form:</b> Uf6.31
	<b>Great Soil Group:</b> N/A

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

#### Vegetation:

**Surface Coarse** No surface coarse fragments; 10-20%, , subrounded, Dolerite

#### Profile

A1 0 - 0.1 m Subangular blocky;  coarse  (Raupach);	Dark reddish brown (5YR3/3-Moist); , 0-0% ; Light clay; Moderate grade of structure,  Rough-ped fabric; Wet; Firm consistence; 20-50%, fine gravelly, 2-6mm, subrounded, ,  fragments; Many (20 - 50 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7  Many, very fine (0-1mm) roots; Abrupt change to -
B2t 0.1 - 0.45 m structure; Smooth-  rounded, , coarse  Slightly	Dark reddish brown (2.5YR3/4-Moist); , 0-0% ; Medium heavy clay; Strong grade of  ped fabric; Moderately moist; Very firm consistence; 20-50%, fine gravelly, 2-6mm,  fragments; Many (20 - 50 %), Manganiferous, Fine (0 - 2 mm), Nodules; Soil matrix is  calcareous; Field pH 8.5 (Raupach); Clear change to -
C 0.45 - 0.5 m ped fabric;  Dolerite, coarse	Red (10R4/6-Moist); , 0-0% ; Medium heavy clay; Moderate grade of structure; Rough-  Moderately moist; Very firm consistence; 20-50%, fine gravelly, 2-6mm, subangular,  fragments; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach); Abrupt change to -
R 0.5 - m	Rock

#### Morphological Notes

B2t	Slicken sides present 35-45. (Black)
C	Weathered dolerite.

#### Observation Notes

##### Site Notes

Site on Carmody Road - located on dolerite dyke. Where crosses adjacent drainage line, a saline seep occurs which has severe sheet erosion, moderate rill and slight gully erosion. Red clay - possibly cracking but no sign of cracks as tops

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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 - 0.1	6B									
0.1 - 0.45	7.2B 8.6H	14B	11.91E	6.32	0.54	3.81		23B	22.58D	16.57
0.1 - 0.45	7.2B 8.6H	14B	11.91E	6.32	0.54	3.81		23B	22.58D	16.57
0.1 - 0.45	7.2B 8.6H	14B	11.91E	6.32	0.54	3.81		23B	22.58D	16.57
0.1 - 0.45	7.2B 8.6H	14B	11.91E	6.32	0.54	3.81		23B	22.58D	16.57
0.15 - 0.25	7B									
0.35 - 0.45	7.7B									

Depth	CaCO <sub>3</sub>	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m <sup>3</sup>	GV CS FS Silt
0 - 0.1								
0.1 - 0.45	<2C							33I 9
0.1 - 0.45	<2C							33I 9
0.1 - 0.45	<2C							33I 9
0.1 - 0.45	<2C							33I 9
0.15 - 0.25								
0.35 - 0.45								

### 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
15C1_CA	Exchangeable bases (Ca <sup>2+</sup> , Mg <sup>2+</sup> , Na <sup>+</sup> , K <sup>+</sup> ) - 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 (CaCO <sub>3</sub> ) - 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