

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0421 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b> Heather Percy	<b>Locality:</b>
<b>Date Desc.:</b> 24/08/92	<b>Elevation:</b> 290 metres
<b>Map Ref.:</b>	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6278220 AMG zone: 50	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 588040 Datum: AGD84	<b>Drainage:</b> Poorly 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

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

#### 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> Dy2.13
	<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; No surface coarse fragments

#### Profile

0 - 0.06 m	;
A1 0.06 - 0.12 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sandy clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; Moderately moist; Very weak consistence; Field pH 8 (Raupach); Abundant, fine (1-2mm) roots; Abrupt, Smooth change to -
B21tk 0.12 - 0.45 m	Greyish brown (2.5Y5/3-Moist); , 0-0% ; Light clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Weak consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; Soil matrix is Very highly calcareous; Field pH 9.5 (Raupach); Common, fine (1-2mm) roots; Gradual change to -
B22tk 0.45 - 1 m	Light yellowish brown (2.5Y6/4-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; Soil matrix is Very highly calcareous; Field pH 9.5 (Raupach); Few, fine (1-2mm) roots;

#### Morphological Notes

A1	layer added for completeness - TG April 2012
B22tk	Top 6cm sand overburden. Very slight dispersion. Sample ESP, % clay Soil wet at 100cm

#### Observation Notes

#### Site Notes

Nader Road

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#### Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.11	6.14B									
0.06 - 0.12	7.5B 8.2H	23B	7.63E	4.4	1.39	0.92		16B	14.34D	5.75
0.06 - 0.12	7.5B 8.2H	23B	7.63E	4.4	1.39	0.92		16B	14.34D	5.75
0.06 - 0.12	7.5B 8.2H	23B	7.63E	4.4	1.39	0.92		16B	14.34D	5.75
0.12 - 0.45	8.3B 8.8H	130B	6.8E	10.25	2.01	7.21		21B	26.27D	34.33
0.12 - 0.45	8.3B 8.8H	130B	6.8E	10.25	2.01	7.21		21B	26.27D	34.33
0.12 - 0.45	8.3B 8.8H	130B	6.8E	10.25	2.01	7.21		21B	26.27D	34.33
0.16 - 0.26	8.3B									
0.36 - 0.46	8.51B									

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV	Size CS	Analysis FS %	Silt
0 - 0.11											
0.06 - 0.12	<2C										
0.06 - 0.12	<2C										
0.06 - 0.12	<2C										
0.12 - 0.45	5C										
0.12 - 0.45	5C										
0.12 - 0.45	5C										
0.16 - 0.26											
0.36 - 0.46											

#### Laboratory Analyses Completed for this profile

15_NR_CMR	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)