

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0136 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Heather Percy  
**Date Desc.:** 28/11/91  
**Map Ref.:**  
**Northing/Long.:** 6272750 AMG zone: 50  
**Easting/Lat.:** 572000 Datum: AGD84  
**Locality:**  
**Elevation:** 280 metres  
**Rainfall:** No Data  
**Runoff:** No Data  
**Drainage:** Rapidly drained

#### Geology

**ExposureType:** Existing vertical exposure  
**Geol. Ref.:** No Data  
**Conf. Sub. is Parent. Mat.:** No Data  
**Substrate Material:** No Data

#### Land Form

**Rel/Slope Class:** Undulating plains <9m 3-10%  
**Morph. Type:** Crest  
**Elem. Type:** Lunette  
**Slope:** 5 %  
**Pattern Type:** Alluvial plain  
**Relief:** 3 metres  
**Slope Category:** No Data  
**Aspect:** 270 degrees

#### Surface Soil Condition Loose

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

#### Soil Classification

**Australian Soil Classification:** N/A  
**Mapping Unit:** N/A  
**Principal Profile Form:** Uc2.21  
**ASC Confidence:** Confidence level not specified  
**Great Soil Group:** N/A

**Site** Highly disturbed, for example, quarrying, roadworks, mining, landfill, urban

#### Vegetation:

**Surface Coarse** No surface coarse fragments; No surface coarse fragments

#### Profile

A1e	0 - 0.3 m	Pale brown (10YR6/3-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Dry; Field pH 7
		(Raupach); Abundant, fine (1-2mm) roots; Sharp change to -
A2e	0.3 - 1.3 m	Yellow (10YR7/6-Moist); Mottles, 5YR56, 0-2% , 0-5mm, Distinct; Fine sand; Massive
	grade of	structure; Sandy (grains prominent) fabric; Dry; Field pH 7 (Raupach); Common, coarse
	(>5mm) roots;	Clear change to -
B2w	1.3 - 1.7 m	Brownish yellow (10YR6/8-Moist); Mottles, 7.5YR68, 0-2% , 5-15mm, Distinct; Clayey fine
	sand; Massive	grade of structure; Sandy (grains prominent) fabric; Moist; Few (2 - 10 %), Ferruginous,
	Medium (2 -6	mm), Concretions; Field pH 6.5 (Raupach); Few, fine (1-2mm) roots;

#### Morphological Notes

A1e PLUS KS  
 A2e MOTTLES AT 120CM. PLUS KS  
 B2w PLUS KS

#### Observation Notes

#### Site Notes

Sand pit in lunette

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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				Na Cmol (+)/kg				%
0 - 0.3	5.2B	2B	1H	0.22	0.07	0.03	0.02J		1.32D	
	6.1H									
0 - 0.3	5.2B	2B	1H	0.22	0.07	0.03	0.02J		1.32D	

0.3 - 1.3	6.1H 6B	2B	0.38A	0.11	0.06	0.05		0.6D
0.3 - 1.3	6.6H 6B	2B	0.38A	0.11	0.06	0.05		0.6D
1.3 - 1.7	6.6H 6B	1B	0.55A	0.38	0.14	0.07		1.14D
1.3 - 1.7	7H 6B	1B	0.55A	0.38	0.14	0.07		1.14D
	7H							

Depth	CaCO <sub>3</sub>	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m <sup>3</sup>	GV CS FS	Silt
0 - 0.3		0.31D		11B					1.8
1.1									
0 - 0.3		0.31D		11B					1.8
1.1									
0.3 - 1.3		0.05D		12B					1.5
2.4									
0.3 - 1.3		0.05D		12B					1.5
2.4									
1.3 - 1.7		0.04D		9B					1.1
7.4									
1.3 - 1.7		0.04D		9B					1.1
7.4									

#### 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	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble salts	
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble salts	
15A1_MG	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble salts	
15A1_NA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble salts	
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) by compulsive exchange, no pretreatment for soluble salts
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 <sup>2+</sup> ) 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	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
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B_AL_NR	Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method

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9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9H1	Anion storage capacity
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_20_75	20 to 75u particle size analysis, (method not recorded)
P10_75_106	75 to 106u particle size analysis, (method not recorded)
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10106_150	106 to 150u particle size analysis, (method not recorded)
P10150_180	150 to 180u particle size analysis, (method not recorded)
P10180_300	180 to 300u particle size analysis, (method not recorded)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)