

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 1075 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Heather Percy  
**Date Desc.:** 27/07/93  
**Map Ref.:**  
**Northing/Long.:** 6313280 AMG zone: 50  
**Easting/Lat.:** 548880 Datum: AGD84  
**Locality:**  
**Elevation:** 259 metres  
**Rainfall:** No Data  
**Runoff:** No Data  
**Drainage:** Poorly 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:** Level plain <9m <1%  
**Morph. Type:** Flat  
**Elem. Type:** Plain  
**Slope:** 0 %  
**Pattern Type:** Alluvial plain  
**Relief:** 2 metres  
**Slope Category:** No Data  
**Aspect:** No Data

#### Surface Soil Condition Saline, Hardsetting

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

#### Soil Classification

**Australian Soil Classification:** N/A  
**Mapping Unit:** N/A  
**Principal Profile Form:** Uf6.13  
**ASC Confidence:** Confidence level not specified  
**Great Soil Group:** N/A

**Site** Cultivation. Rainfed

#### Vegetation:

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

#### Profile

A11	0 - 0.01 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Clay loam; Moist; Abundant, very fine (0-1mm) roots;
		Abrupt change to -
A12	0.01 - 0.12 m	Greyish brown (2.5Y5/2-Moist); , 0-0% ; Light clay; Moderate grade of structure, Polyhedral; Rough-ped
		fabric; Moist; Firm consistence; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);
		Many, very fine
		(0-1mm) roots; Abrupt change to -
B21	0.12 - 0.5 m	Grey (2.5Y6/1-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Rough-ped
		fabric; Moist; Firm
		consistence; Soil matrix is Slightly calcareous; Field pH 9 (Raupach); Common, very fine
		(0-1mm) roots;
B22	0.5 - 0.6 m	Grey (2.5Y5/1-Moist); , 0-0% ; Medium heavy clay; Moderate grade of structure; Rough-ped fabric;
		Moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, subrounded, , coarse
		fragments; Few (2 - 10
		%), Ferruginous, Medium (2 -6 mm), Nodules; Soil matrix is Slightly calcareous; Field pH
		9 (Raupach);
		Few, very fine (0-1mm) roots;

#### Morphological Notes

#### Observation Notes

#### Site Notes

Site along road reserve of Ballaying West Road - cereal crop showing signs of water logging in depression.

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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	7.8B									
0.12 - 0.5	7.9B	92B	8.07E	7.34	1.48	4.52		22B	21.41D	20.55
	8.6H									
0.12 - 0.5	7.9B	92B	8.07E	7.34	1.48	4.52		22B	21.41D	20.55
	8.6H									
0.12 - 0.5	7.9B	92B	8.07E	7.34	1.48	4.52		22B	21.41D	20.55
	8.6H									
0.15 - 0.25	7.8B									
0.4 - 0.5	7.9B									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt
0 - 0.1									
0.12 - 0.5	<2C							42I	12.5
45.5									
0.12 - 0.5	<2C							42I	12.5
45.5									
0.12 - 0.5	<2C							42I	12.5
45.5									
0.15 - 0.25									
0.4 - 0.5									

#### 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