Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0447** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	10/09/92	**Elevation:**	268 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6294420 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	539360 Datum: AGD84	**Drainage:**	Poorly drained

Geology

ExposureType:	Auger boring	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	No Data

Land Form

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

Surface Soil Condition Saline

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

Soil Classification

Australian Soil Classification:
Ferric Mottled-Hypernatric Grey Sodosol
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Dg4.43
Great Soil Group: 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

A1 0 - 0.1 m Dark grey (10YR4/1-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Wet; Loose consistence; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Abrupt change to -

A21e 0.1 - 0.45 m Light grey (10YR7/2-Moist); , 0-0% ; Coarse sand; Single grain grade of structure; Wet; Loose consistence; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Clear change to -

A22ec 0.45 - 0.55 m Light grey (10YR7/2-Moist); , 0-0% ; Coarse sand; Single grain grade of structure; Wet; Loose consistence; 50-90%, medium gravelly, 6-20mm, rounded, , coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 8 (Raupach); Common, fine (1-2mm) roots; Abrupt change to -

B2t 0.55 - 0.7 m Light grey (10YR7/1-Moist); Mottles, 7.5YR44, 20-50% , 5-15mm, Distinct; Medium clay; Moderate grade of structure; Rough-ped fabric; Moist; Very firm consistence; Field pH 8.5 (Raupach);

Morphological Notes

B2t Very slight dispersion

Observation Notes

Site Notes

Tieline Road - near S.Vlahos trial site at Boyerine

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%

0 - 0.11	5.36B										
0.16 - 0.26	4.78B										
0.36 - 0.46	5.38B										
0.55 - 0.7	7.3B 8H	110B	1.29A	3.37	0.26	6.59					11.51D
0.55 - 0.7	7.3B 8H	110B	1.29A	3.37	0.26	6.59					11.51D
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Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle CS	Size FS	Analysis Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.11											
0.16 - 0.26											
0.36 - 0.46											
0.55 - 0.7	<2C										
0.55 - 0.7	<2C										
0.55 - 0.7	<2C										

Laboratory Analyses Completed for this profile

15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 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 (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, 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
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)