Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **1822** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	05/07/94	**Elevation:**	280 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6268930 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	567940 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:**	Rises
Morph. Type:	Lower-slope	**Relief:**	1 metres
Elem. Type:	Footslope	**Slope Category:**	No Data
Slope:	1 %	**Aspect:**	0 degrees

Surface Soil Condition Saline, Hardsetting

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

Soil Classification

Australian Soil Classification: N/A
ASC Confidence: Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Dy3.23
Great Soil Group: N/A

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

Surface Coarse 2-10%, medium gravelly, 6-20mm, rounded, ; No surface coarse fragments

Profile

A1 0 - 0.12 m Black (10YR2/1-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; Field pH 6.5 (Raupach); Abrupt, Smooth change to -

A21 0.12 - 0.2 m Brown (10YR5/3-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moist; 20-50%, medium gravelly, 6-20mm, rounded, , coarse fragments; Field pH 7.5 (Raupach); Clear change to -

A22c 0.2 - 0.4 m Pale brown (10YR6/3-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure; Moist; 20-50%, medium gravelly, 6-20mm, rounded, , coarse fragments; 20-50%, fine gravelly, 2-6mm, rounded, , coarse fragments; Field pH 8 (Raupach); Abrupt change to -

B2 0.4 - 0.45 m Pale brown (10YR6/3-Moist); Mottles, 10YR58, 20-50% , 15-30mm, Distinct; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Field pH 8.5 (Raupach); Abrupt change to -

B3 0.45 - 0.6 m Brownish yellow (10YR6/6-Moist); Mottles, 2.5Y74, 10-20% , 5-15mm, Faint; , 10YR58, 10-20% , 5-15mm, Distinct; Light clay; Moderate grade of structure; Rough-ped fabric; Field pH 9 (Raupach); Clear change to -

C 0.6 - 0.7 m Yellowish brown (10YR5/8-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Field pH 9 (Raupach);

Morphological Notes

Observation Notes

Site Notes

B. Ward's salinity tolerance trial - Ewlymartup.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	5.9B 6.3H	140B								
0.1 - 0.2	6.6B 7.1H	46B								
0.4 - 0.5	7.2B 7.8H 7.2B 7.8H	120B								
0.4 - 0.6	7.1B 7.8H	100B	1.3A	0.22	0.03	0.07			1.62D	
0.4 - 0.5	7.2B 7.8H 7.2B 7.8H	120B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1											
0.1 - 0.2											
0.4 - 0.5											
0.4 - 0.6									57.5I		7.5
35											
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_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
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_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded