

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0126 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 25/11/91	Elevation: 281 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6271860 AMG zone: 50	Runoff: No Data
Easting/Lat.: 560670 Datum: AGD84	Drainage: Imperfectly 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: 1 %	Aspect: 45 degrees

Surface Soil Condition Saline, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Hypocalcic Mottled-Hypernatric Brown Sodosol	Principal Profile Form: Dy3.43
ASC Confidence:	Great Soil Group: N/A
Confidence level not specified	

Site Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Coarse sand; Single grain grade of structure; Dry;
A2e	0.1 - 0.3 m	Pale brown (10YR6/3-Moist); , 0-0% ; Loamy coarse sand; Single grain grade of structure; Dry; Field pH 7 (Raupach); Abrupt change to -
B21	0.3 - 0.45 m	Yellowish brown (10YR5/8-Moist); Mottles, 10YR72, 10-20% , 15-30mm, Distinct; Medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Soil matrix is Slightly calcareous; Field pH 8 (Raupach); Few, very fine (0-1mm) roots; Clear change to -
B22	0.45 - 0.6 m	Brownish yellow (10YR6/6-Moist); Mottles, 10YR72, 10-20% , 5-15mm, Distinct; Medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Field pH 8.5 (Raupach); Clear change to -
B23	0.6 - 0.75 m	Pale brown (10YR6/3-Moist); Mottles, 10YR66, 10-20% , 5-15mm, Distinct; Light medium clay; Weak grade of structure; Rough-ped fabric; Moderately moist; Field pH 8.5 (Raupach); Gradual change to -
B24	0.75 - 1 m	Brownish yellow (10YR6/6-Moist); Mottles, 10YR81, 10-20% , 15-30mm, Distinct; Light medium clay; Weak grade of structure; Rough-ped fabric; Moderately moist; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

Morphological Notes

A1	KS<1MM
A2e	KS<1MM
B21	M SAND IN CLAY. SAMPLED
B22	C SAND IN CLAY

Observation Notes

Site Notes

Water level in observation well approx 30m downslope was 147cm

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Observation 1

Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0.3 - 0.45	7B	86B	1.14A	4.92	0.23	2.61			8.9D	
	7.8H									
0.3 - 0.45	7B	86B	1.14A	4.92	0.23	2.61			8.9D	
	7.8H									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0.3 - 0.45									50I		5
45											
0.3 - 0.45									50I		5
45											

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	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_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