

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 1217 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 25/08/93	Elevation: 298 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6347590 AMG zone: 50	Runoff: No Data
Easting/Lat.: 541930 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: Gently undulating plains <9m 1-3% **Pattern Type:** No Data

Morph. Type: Upper-slope	Relief: 5 metres
Elem. Type: Duneslope	Slope Category: No Data
Slope: 1 %	Aspect: 270 degrees

Surface Soil Condition

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

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Calcic Subnatric Brown Sodosol	Principal Profile Form: Db4.23
ASC Confidence:	Great Soil Group: N/A
Confidence level not specified	

Site No effective disturbance. Natural

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A11 0 - 0.05 m moist; Soil	Black (10YR2/1-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Moderately matrix is Moderately calcareous; Field pH 8.5 (Raupach); Abrupt, Smooth change to -
A12 0.05 - 0.12 m pH 9.5	Brown (7.5YR4/3-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Dry; Field (Raupach); Clear change to -
A2 0.12 - 0.3 m matrix is Slightly	Brown (7.5YR5/4-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Dry; Soil calcareous; Field pH 8 (Raupach); Clear change to -
B1 0.3 - 0.4 m Rough-ped fabric;	Brown (7.5YR4/4-Moist); , 0-0% ; Clay loam, coarse sandy; Weak grade of structure; Moderately moist; Soil matrix is Moderately calcareous; Field pH 9 (Raupach); Clear change to -
B21 0.4 - 0.6 m structure; Rough- Clear change to -	Strong brown (7.5YR4/6-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of ped fabric; Moderately moist; Soil matrix is Highly calcareous; Field pH 9 (Raupach);
B22k 0.6 - 0.7 m Rough-ped 50 %), Field pH 9	Brown (7.5YR5/4-Moist); , 0-0% ; Sandy light medium clay; Massive grade of structure; fabric; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Concretions; Many (20 - Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Highly calcareous; (Raupach);

Morphological Notes

A2 Coarse sand in weak clayey medium sand

Observation Notes

Site Notes

on dune system between two lakes - site in nature reserve adjacent to cereal crop. Crops grown on dunes, swales between dunes are saline

and waterlogged. Evidence of wind erosion in cleared, cropped soil, as we

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.1	6.8B									
0 - 0.1	6.8B									
0.15 - 0.25	6.8B									
0.3 - 0.5	7.3B									
	8.1B	119B	5.07E	5.23	1.52	1.37		13B	13.19D	10.54
	8.5H		5.07E	5.23	1.52	1.37		13B	13.19D	
	8.1B									
	8.5H									
0.3 - 0.5	8.1B	119B	5.07E	5.23	1.52	1.37		13B	13.19D	10.54
	8.5H		5.07E	5.23	1.52	1.37		13B	13.19D	
	8.1B									
	8.5H									
0.3 - 0.5	8.1B	119B	5.07E	5.23	1.52	1.37		13B	13.19D	10.54
	8.5H		5.07E	5.23	1.52	1.37		13B	13.19D	
	8.1B									
	8.5H									
0.3 - 0.5	8.1B	119B	5.07E	5.23	1.52	1.37		13B	13.19D	10.54
	8.5H		5.07E	5.23	1.52	1.37		13B	13.19D	
	8.1B									
	8.5H									
0.3 - 0.5	8.1B	119B	5.07E	5.23	1.52	1.37		13B	13.19D	10.54
	8.5H		5.07E	5.23	1.52	1.37		13B	13.19D	
	8.1B									
	8.5H									
0.4 - 0.5	8B									

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV CS	Size FS	Analysis Silt
0 - 0.1										
0 - 0.1										
0.15 - 0.25										
0.3 - 0.5	<2C							62I		5
33										
	<2C							62I		5
	33									
0.3 - 0.5	<2C							62I		5
33										
	<2C							62I		5
	33									
0.3 - 0.5	<2C							62I		5
33										
	<2C							62I		5
	33									
0.3 - 0.5	<2C							62I		5
33										
	<2C							62I		5
	33									

0.3 - 0.5	<2C	62I	5
33			
	<2C	62I	5
	33		
0.4 - 0.5			

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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