

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0304 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 03/07/92	Elevation: 265 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6290170 AMG zone: 50	Runoff: No Data
Easting/Lat.: 523890 Datum: AGD84	Drainage: Moderately well 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 rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type: Mid-slope	Relief: 20 metres
Elem. Type: Hillslope	Slope Category: No Data
Slope: 4 %	Aspect: 180 degrees

Surface Soil Condition Hardsetting

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

Soil Classification

Australian Soil Classification: N/A	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: Dg2.22
	Great Soil Group: N/A

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

Vegetation:

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

Profile

A1 0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moist;
Field pH 5.5	Loose consistence; 20-50%, medium gravelly, 6-20mm, rounded, , coarse fragments; (Raupach); Abundant, fine (1-2mm) roots; Abrupt, Smooth change to -
A2 0.1 - 0.3 m	Strong brown (7.5YR5/6-Moist); , 0-0% ; Clayey coarse sand; Moist; Loose consistence; 50-90%, medium gravelly, 6-20mm, rounded, Clay, coarse fragments; Field pH 6 (Raupach);
Many, very fine (0-1mm) roots; Abrupt change to -	
A3 0.3 - 0.35 m	Very pale brown (10YR7/3-Moist); , 0-0% ; Coarse sandy loam; Single grain grade of structure; Moist;
20-50%, coarse	Very weak consistence; 20-50%, medium gravelly, 6-20mm, rounded, , coarse fragments; gravelly, 20-60mm, subrounded, , coarse fragments; Field pH 6 (Raupach); Common,
very fine (0-1mm) roots; Abrupt change to -	
B2 0.35 - 1 m	Very pale brown (10YR7/3-Moist); Mottles, 2.5YR4/8, 20-50% , 0-5mm, Faint; Light clay; Moderate grade
20mm, rounded,	of structure; Rough-ped fabric; Dry; Very firm consistence; 10-20%, medium gravelly, 6-20mm, rounded, , coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 - 6 mm), Nodules; Field pH
6.5 (Raupach);	Few, very fine (0-1mm) roots;

Morphological Notes

A1	Some coarse sand grains in the clayey medium sand
B2	Sampled ESP. pH increases to 7.0 at bottom of horizon

Observation Notes

Site Notes

Flagstaff Road

Project Name: Katanning land resources survey

Project Code: KLC Site ID: 0304 Observation 1
Agency Name: Agriculture Western Australia

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 - 0.11	4.66B									
0.16 - 0.26	4.8B									
0.35 - 0.55	5.5B	6B	1.21A	5.97	0.16	1.2			8.54D	
	6.8H									
0.35 - 0.55	5.5B	6B	1.21A	5.97	0.16	1.2			8.54D	
	6.8H									
0.41 - 0.51	5.85B									

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 - 0.11											
0.16 - 0.26											
0.35 - 0.55									40.5I		5.5
0.35 - 0.55									40.5I		5.5
0.41 - 0.51											

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	
15A1_CEC	salts
15A1_K	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_MG	salts
for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA	salts
for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15J_BASES	salts
15L1_a	Sum of Bases
Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
15N1_a	and measured clay
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
3_NR	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
4_NR	Electrical conductivity or soluble salts - Not recorded
4B1	pH of soil - Not recorded
P10_gt2m	pH of 1:5 soil/0.01M calcium chloride extract - direct
P10_NR_C	> 2mm particle size analysis, (method not recorded)
P10_NR_S	Clay (%) - Not recorded
P10_NR_Z	Sand (%) - Not recorded
	Silt (%) - Not recorded