

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 1661 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 31/05/94	Elevation: 290 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6318270 AMG zone: 50	Runoff: No Data
Easting/Lat.: 498310 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 rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type: Mid-slope	Relief: 20 metres
Elem. Type: Hillslope	Slope Category: No Data
Slope: 5 %	Aspect: 0 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Ferric Subnatric Brown Sodosol	Principal Profile Form: Dy2.61
ASC Confidence:	Great Soil Group: N/A
Analytical data are incomplete but reasonable confidence.	

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

Vegetation:

Surface Coarse No surface coarse fragments; 2-10%, , subangular, Gabbro

Profile

A1	0 - 0.1 m	Dark brown (7.5YR3/3-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Moist; 10-20%, fine
		gravelly, 2-6mm, rounded, , coarse fragments; Field pH 5.5 (Raupach); Abrupt, Smooth change to -
A21	0.1 - 0.25 m	Yellowish red (5YR4/6-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Wet; 20-50%, fine
		gravelly, 2-6mm, rounded, , coarse fragments; Field pH 6 (Raupach); Abrupt, Smooth change to -
A22	0.25 - 0.4 m	Yellowish brown (10YR5/6-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Wet; 20-50%, fine
		gravelly, 2-6mm, rounded, , coarse fragments; 2-10%, medium gravelly, 6-20mm, rounded, , coarse fragments; Field pH 7.5 (Raupach); Abrupt change to -
B21	0.4 - 1 m	Yellowish brown (10YR5/8-Moist); Mottles, 2.5YR46, 2-10% , 0-5mm, Distinct; Medium heavy clay;
		Moderate grade of structure; Rough-ped fabric; Moderately moist; Field pH 7.5 (Raupach); Clear change to -
B22	1 - 1.2 m	Strong brown (7.5YR5/6-Moist); Mottles, 10YR62, 2-10% , 15-30mm, Distinct; Heavy clay; Strong grade
		of structure; Smooth-ped fabric; Moderately moist; Field pH 6 (Raupach);

Morphological Notes

A21 Black gravel.

Observation Notes

Site Notes

Site along Howie Road.

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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 - 0.1	5B									
0.15 - 0.25	5.3B									
0.4 - 0.6	6.6B	6B	0.52A	0.43	0.17	0.17			1.29D	
	7.8H									
0.4 - 0.5	6.5B									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt
0 - 0.1									
0.15 - 0.25									
0.4 - 0.6								42I	9
49									
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_CMd	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	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