Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0318** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 15/07/92
Map Ref.:
Northing/Long.: 6273000 AMG zone: 50
Easting/Lat.: 543310 Datum: AGD84
Locality:
Elevation: 320 metres
Rainfall: No Data
Runoff: No Data
Drainage: Imperfectly drained

Geology

ExposureType: Auger boring
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-10%
Pattern Type: Low hills

Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 4 %
Relief: 40 metres
Slope Category: No Data
Aspect: 180 degrees

Surface Soil Condition Firm

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: Dy5.42
Great Soil Group: N/A

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

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A1 0 - 0.1 m Very dark grey (10YR3/1-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Moderately moist; Loose consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 6 (Raupach); Abundant, very fine (0-1mm) roots; Sharp, Smooth change to -

A21 0.1 - 0.3 m Brownish yellow (10YR6/6-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure; Moderately moist; Loose consistence; Field pH 5.5 (Raupach); Many, very fine (0-1mm) roots; Abrupt change to -

A22e 0.3 - 0.5 m Pale yellow (2.5Y7/3-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure; Wet; Loose consistence; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Abrupt, Wavy change to -

B21 0.5 - 0.65 m Yellow (10YR7/6-Moist); Mottles, 10R46, 20-50% , 0-5mm, Distinct; Coarse sandy light clay; Moderate grade of structure; Rough-ped fabric; Moist; Weak consistence; Field pH 6.5 (Raupach); Common, very fine (0-1mm) roots; Clear change to -

B22 0.65 - 1 m Reddish yellow (7.5YR6/8-Moist); Mottles, 10R48, 10-20% , 0-5mm, Distinct; Medium clay; Moderate grade of structure; Rough-ped fabric; Moist; Firm consistence; Soil matrix is Slightly calcareous; Field pH 7 (Raupach); Few, very fine (0-1mm) roots;

Morphological Notes

A22e Water entered about clay
B21 Sampled for ESP
B22 Sporadic white (kaolinite) patches from 80cm

Observation Notes

Site Notes

Along House Road EC=28ms/m

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.11	4.41B									
0.16 - 0.26	4.05B									
0.41 - 0.51	4.38B									
0.5 - 0.65	4.7B 5.7H	4B	0.48H	0.88	0.04	0.14	0.09J		1.54D	
0.5 - 0.65	4.7B 5.7H	4B	0.48H	0.88	0.04	0.14	0.09J		1.54D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis			
		Clay						GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.11											
0.16 - 0.26											
0.41 - 0.51											
0.5 - 0.65									69I		3.5
27.5											
0.5 - 0.65									69I		3.5
27.5											

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
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble salts
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MN	Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Sum of Bases
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