

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0061 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 25/05/95
Map Ref.:
Northing/Long.: 6285910 AMG zone: 50
Easting/Lat.: 599200 Datum: AGD84
Locality:
Elevation: 330 metres
Rainfall: No Data
Runoff: No Data
Drainage: Moderately well drained

Geology

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

Landform

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 4 %
Pattern Type: Rises
Relief: 20 metres
Slope Category: No Data
Aspect: 45 degrees

Surface Soil Condition Firm

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

Soil Classification

Australian Soil Classification: Ferric Mesotrophic Brown Chromosol
ASC Confidence: All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy5.11
Great Soil Group: N/A

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

Vegetation

Surface Coarse Fragments 20-50%, medium gravelly, 6-20mm, rounded, ; 2-10%, , subangular,

Profile Morphology

A1	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Fine sand; Single grain grade of structure; Moist;
	20mm, rounded, ,	10-20%, fine gravelly, 2-6mm, rounded, , coarse fragments; 2-10%, medium gravelly, 6-coarse fragments; Field pH 6 (Raupach); Abrupt, Smooth change to -
A3	0.05 - 0.25 m	Pale brown (10YR6/3-Moist); , 0-0% ; Clayey sand; Single grain grade of structure;
	Moderately moist;	20-50%, fine gravelly, 2-6mm, rounded, , coarse fragments; 2-10%, medium gravelly, 6-coarse fragments; Field pH 5.5 (Raupach); Abrupt change to -
	20mm, rounded, ,	
B2	0.25 - 0.35 m	Strong brown (7.5YR5/6-Moist); ; Sandy medium clay; Moderate grade of structure;
	Rough-ped fabric;	Dry; Firm consistence; Field pH 6 (Raupach); Clear change to -
B3	0.35 - 0.5 m	Strong brown (7.5YR5/8-Moist); , 2.5YR46, 10-20% , 5-15mm, Distinct; Sandy clay loam;
	Massive grade	of structure; Dry; Field pH 6 (Raupach);

Morphological Notes

B3 Hard to dig.

Observation Notes

Site Notes

Soil was possibly water repellent - granite outcrop 50 metres downslope.

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Cations	Na	Exchangeable	CEC	ECEC	ESP
m		dS/m		Mg K	cmol (+)/kg	Acidity			%
0 - 0.1	4.3B								
	4.3B								

0 - 0.1	4.3B									
	4.3B									
0.15 - 0.25	4.1B									
0.25 - 0.35	4.6B	4B	1.1H	1.74	0.02	0.17	0.22J		3.03D	
	5.5H									
0.25 - 0.35	4.6B	4B	1.1H	1.74	0.02	0.17	0.22J		3.03D	
	5.5H									
0.4 - 0.5	4.9B									

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m ³			%	
0 - 0.1											
0 - 0.1											
0.15 - 0.25											
0.25 - 0.35									49.5l		1
49.5											
0.25 - 0.35									49.5l		1
49.5											
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_CMRR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble salts
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 (Mn ²⁺) 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