

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0234 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	17/07/95	Elevation:	340 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6254950 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	593515 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

Landform

Rel/Slope Class: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type:	Mid-slope	Relief:	10 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	3 %	Aspect:	180 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Calcic Mesonatric Brown Sodosol		Principal Profile Form:	Db1.13
ASC Confidence:		Great Soil Group:	N/A
All necessary analytical data are available.			

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

Vegetation

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

Profile Morphology

A1	0 - 0.1 m	Dark reddish brown (5YR3/2-Moist); , 0-0% ; Sandy loam; Weak grade of structure, 10-20 mm, Subangular blocky; Sandy (grains prominent) fabric; Moist; Field pH 6 (Raupach); Abrupt, Wavy change to -
B21	0.1 - 0.3 m	Brown (7.5YR4/4-Moist); Mechanical, 5YR32, 10-20% , 15-30mm, Distinct; Medium heavy clay; Strong grade of structure; Rough-ped fabric; Dry; Very firm consistence; Field pH 7.5 (Raupach); Gradual change to -
B22	0.3 - 0.5 m	Brown (7.5YR4/3-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Field pH 8 (Raupach); Abrupt change to -
B31	0.5 - 0.7 m	Strong brown (7.5YR5/6-Moist); , 0-0% ; Fine sandy clay loam; Massive grade of structure; Dry; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, Dolerite, coarse fragments; 10-20%, medium gravelly, 6-20mm, subangular, Dolerite, coarse fragments; Soil matrix is Moderately calcareous; Field pH 8.5 (Raupach); Gradual change to -
B32k	0.7 - 0.9 m	Strong brown (7.5YR5/6-Moist); , 0-0% ; Light clay; Massive grade of structure; Weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, Dolerite, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Soil matrix is Highly calcareous; Field pH 9 (Raupach);

Morphological Notes

B32k pH at 90cm

Observation Notes

Site Notes

Variant of Winspear with a Brown subsoil (rather than Red)

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0234 **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 - 0.1	5.2B 6.2H 4.9B	8B	5.49H	2.83	0.41	0.41	0.04J		9.14D	
0 - 0.1	5.2B 6.2H 4.9B	8B	5.49H	2.83	0.41	0.41	0.04J		9.14D	
0 - 0.1	5.2B 6.2H 4.9B	8B	5.49H	2.83	0.41	0.41	0.04J		9.14D	
0.1 - 0.3	6B 7.1H	17B	8.94A	8.73	0.28	3.64			21.59D	
0.1 - 0.3	6B 7.1H	17B	8.94A	8.73	0.28	3.64			21.59D	
0.15 - 0.25	5.8B									
0.4 - 0.5	7.1B									

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.1		1.77D						78.5I 10.5
0 - 0.1		1.77D						78.5I 10.5
0 - 0.1		1.77D						78.5I 10.5
0.1 - 0.3		0.58D						53.5I 11
0.1 - 0.3		0.58D						53.5I 11
0.15 - 0.25								
0.4 - 0.5								

Laboratory Analyses Completed for this profile

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
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 (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
15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	and measured clay

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0234 **Observation** 1
Agency Name: Agriculture Western Australia

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
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
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