

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0343 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy **Locality:**
Date Desc.: 03/08/95 **Elevation:** 270 metres
Map Ref.: **Rainfall:** No Data
Northing/Long.: 6247890 AMG zone: 50 **Runoff:** No Data
Easting/Lat.: 595070 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: 2 % **Aspect:** 135 degrees

Surface Soil Condition Cracking, Hardsetting

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

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
 Epiphypersodic Pedal Calcic Calcarosol **Principal Profile Form:** Ug6.6
ASC Confidence: **Great Soil Group:** N/A
 Analytical data are incomplete but reasonable confidence.

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

Vegetation

Surface Coarse Fragments ; 10-20%, , subangular, Gabbro

Profile Morphology

A1	0 - 0.05 m	Dark reddish brown (5YR3/2-Moist); , 0-0% ; Light clay; Weak grade of structure, Subangular blocky;
		Rough-ped fabric; Moist; Weak consistence; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach);
		Abrupt, Wavy change to -
B21	0.05 - 0.4 m	Reddish brown (5YR4/4-Moist); Mechanical, 5YR32, 10-20% , 5-15mm, Faint; Medium clay; Strong
		grade of structure; Rough-ped fabric; Moist; Firm consistence; Few cutans, <10% of ped faces or walls
		coated; Soil matrix is Moderately calcareous; Field pH 8.5 (Raupach); Clear change to -
B22k	0.4 - 0.7 m	Reddish brown (5YR4/4-Moist); Mechanical, 5YR32, 2-10% , 0-5mm, Faint; Medium clay; Strong grade
		of structure; Smooth-ped fabric; Dry; Very firm consistence; Few cutans, <10% of ped faces or walls
		coated; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Highly
		calcareous; Field pH 9 (Raupach);

Morphological Notes

B21 Cutans 5YR 3/2, few slickensides.
 B22k Cutans 5YR 3/2, few slickensides.

Observation Notes

Site Notes

Site along Jackitup Road.

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0343 **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 - 0.05	7.2B 7.8H 6.8B	22B	23.26A	7.11	1.62	0.7		32.69D	
0 - 0.05	7.2B 7.8H 6.8B	22B	23.26A	7.11	1.62	0.7		32.69D	
0 - 0.05	7.2B 7.8H 6.8B	22B	23.26A	7.11	1.62	0.7		32.69D	
0.05 - 0.25	8.1B 9H	23B	22.8E	13.61	0.81	3.62	38B	40.84D	9.53
0.05 - 0.25	8.1B 9H	23B	22.8E	13.61	0.81	3.62	38B	40.84D	9.53
0.15 - 0.25	8B								
0.4 - 0.5	8.4B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.05		2.44D							57I		13.5
29.5											
0 - 0.05		2.44D							57I		13.5
29.5											
0 - 0.05		2.44D							57I		13.5
29.5											
0.05 - 0.25	4C	0.96D							38.5I		
0.05 - 0.25	4C	0.96D							38.5I		
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_CM	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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15J_BASES	Sum of Bases

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0343 **Observation** 1
Agency Name: Agriculture Western Australia

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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
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
P10_NR_ZC	Silt + clay (%) - Not recorded