

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0311 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	31/07/95	Elevation:	280 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6243930 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	630600 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:	Lower-slope	Relief:	5 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	2 %	Aspect:	90 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Epiphypersodic Pedal Calcic Calcarosol	Principal Profile Form:	Gc2.22
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 No surface coarse fragments; No surface coarse fragments

Profile Morphology

A1 0 - 0.08 m Dark brown (7.5YR3/3-Moist); , 0-0% ; Light clay; Massive grade of structure; Moderately moist; Weak consistence; Soil matrix is Very highly calcareous; Field pH 9 (Raupach); Abrupt, Wavy change to -

B1 0.08 - 0.25 m Yellowish red (5YR4/6-Moist); , 0-0% ; Light medium clay; Weak grade of structure; Rough-ped fabric; Moderately moist; Weak consistence; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach); Clear change to -

B21 0.25 - 0.55 m Reddish brown (5YR4/4-Moist); , 0-0% ; Medium clay; Moderate grade of structure; Smooth-ped fabric; Dry; Very firm consistence; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach); Clear change to -

B22 0.55 - 0.7 m Reddish brown (5YR4/4-Moist); , 0-0% ; Light medium clay; Moderate grade of structure; Smooth-ped fabric; Dry; Very firm consistence; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach);

Morphological Notes

A1 Soft and sticky clay.

Observation Notes

Site Notes

Site just west of West Ongerup School site - soil surface is calcareous.

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
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m	dS/m		Cmol (+)/kg							%
0 - 0.08	8B 8.7H	23B	22.61E	9.85	1.48	1.47		34B	35.41D	4.32
0 - 0.08	8B 8.7H	23B	22.61E	9.85	1.48	1.47		34B	35.41D	4.32
0.08 - 0.25	8.6B 9.5H	54B	14.52E	15.3	0.8	8.94		36B	39.56D	24.83
0.08 - 0.25	8.6B 9.5H	54B	14.52E	15.3	0.8	8.94		36B	39.56D	24.83

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 - 0.08 39.5	7C	1.67D						46I	14.5
0 - 0.08 39.5	7C	1.67D						46I	14.5
0.08 - 0.25	16C	0.68D						29.5I	
0.08 - 0.25	16C	0.68D						29.5I	

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
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
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