

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0318 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	01/08/95	Elevation:	310 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6244990 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	619870 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:	10 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	2 %	Aspect:	270 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Epibasic Pedal Hypercalcic Calcarosol	Principal Profile Form:	Gc2.21
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; 10-20%, , subangular, Gneiss

Profile Morphology

Ap	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sandy light clay; Massive grade of structure; Moist;
		Weak consistence; Field pH 6.5 (Raupach); Abrupt, Wavy change to -
B21	0.05 - 0.3 m	Dark reddish brown (5YR3/4-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-
		ped fabric; Moderately moist; Weak consistence; Few cutans, <10% of ped faces or walls coated; Soil
		matrix is Moderately calcareous; Field pH 9 (Raupach); Gradual change to -
B22	0.3 - 0.4 m	Dark reddish brown (5YR3/4-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure;
		Rough-ped fabric; Moderately moist; Firm consistence; Few cutans, <10% of ped faces or walls coated;
		Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Soil matrix is Moderately
		calcareous; Field pH 9.5 (Raupach); Gradual change to -
B23k	0.4 - 0.6 m	Strong brown (7.5YR5/6-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure; Rough-
		ped fabric; Firm consistence; Very many (50 - 100 %), Calcareous, Coarse (6 - 20 mm), Soft
		segregations; Soil matrix is Highly calcareous; Field pH 9.5 (Raupach);

Morphological Notes

B21	Few slickensides.
B22	Few slickensides.

Observation Notes

Site Notes

Site on large gabbro or dolerite dyke. Surface is uneven due to cultivation.

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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	6.4B 7.4H	20B	6.66A	5.26	0.52	0.98			13.42D	
0 - 0.05	6.4B 7.4H	20B	6.66A	5.26	0.52	0.98			13.42D	
0.05 - 0.25	7.5B 8.7H	15B	8.26E	8.72	0.25	3.24		21B	20.47D	15.43
0.05 - 0.25	7.5B 8.7H	15B	8.26E	8.72	0.25	3.24		21B	20.47D	15.43

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 - 0.05 16.5		1.56D						73I	10.5
0 - 0.05 16.5		1.56D						73I	10.5
0.05 - 0.25 31.5	<2C	0.37D						59.5I	9
0.05 - 0.25 31.5	<2C	0.37D						59.5I	9

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 for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_CEC	salts
15A1_K for soluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts
15C1_CA pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15C1_CEC	salts
15C1_K soluble salts	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15C1_MG soluble salts	salts
15C1_NA soluble salts	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15J_BASES	soluble salts
15L1_a Sum of Cations	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15N1_a	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15N1_b	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
19B_NR	Sum of Bases
3_NR	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
4_NR	and measured clay
	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
	Calcium Carbonate (CaCO3) - Not recorded
	Electrical conductivity or soluble salts - Not recorded
	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

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P10_NR_S Sand (%) - Not recorded
P10_NR_Z Silt (%) - Not recorded