

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0442 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	13/09/95	Elevation:	330 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6265490 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	636410 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:	Crest	Relief:	10 metres
Elem. Type:	Hillcrest	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Mesotrophic Mottled-Mesonatric Brown Sodosol	Principal Profile Form:	Dy3.21
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 10-20%, medium gravelly, 6-20mm, subangular, Gneiss; 2-10%, , subangular, Gneiss

Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sand; Massive grade of structure; Moist; 20-50%, medium gravelly, 6-20mm, subangular, Gneiss, coarse fragments; Field pH 5.5 (Raupach); Abrupt, Smooth change to -
A2	0.1 - 0.11 m	Pale brown (10YR6/3-Moist); , 0-0% ; Sand; Massive grade of structure; Moist; Abrupt, Wavy change to -
B2	0.11 - 0.4 m	Yellowish brown (10YR5/4-Moist); Mottles, 5YR46, 10-20% , 5-15mm, Distinct; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Very firm consistence; Field pH 6 (Raupach); Abrupt change to -
B3c	0.4 - 0.55 m	Brown (10YR5/3-Moist); , 0-0% ; Sandy light medium clay; Massive grade of structure; Dry; 50-90%, fine gravelly, 2-6mm, angular, Gneiss, coarse fragments; Field pH 6 (Raupach); Clear change to -
Cc	0.55 - 0.6 m	Light yellowish brown (2.5Y6/4-Moist); , 0-0% ; Clay loam, sandy; Massive grade of structure; Dry; 50-90%, fine gravelly, 2-6mm, angular, Gneiss, coarse fragments; Field pH 6 (Raupach);

Morphological Notes

Cc Stopped by rock - weathered gneiss.

Observation Notes

Site Notes

Site is north of a block of remnant mallee.

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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 - 0.1	5B 6.2H	9B	2.22H	0.89	0.23	0.2	0.08J		3.54D	
0 - 0.1	5B 6.2H	9B	2.22H	0.89	0.23	0.2	0.08J		3.54D	
0 - 0.1	5B 6.2H	9B	2.22H	0.89	0.23	0.2	0.08J		3.54D	
0.11 - 0.31	4.6B 6H	14B	0.7H	4.91	0.04	2.46	0.26J		8.11D	
0.11 - 0.31	4.6B 6H	14B	0.7H	4.91	0.04	2.46	0.26J		8.11D	
0.11 - 0.31	4.6B 6H	14B	0.7H	4.91	0.04	2.46	0.26J		8.11D	

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 - 0.1 4		1.69D						90.5I	5.5
0 - 0.1 4		1.69D						90.5I	5.5
0 - 0.1 4		1.69D						90.5I	5.5
0.11 - 0.31 38.5		0.59D						56.5I	5
0.11 - 0.31 38.5		0.59D						56.5I	5
0.11 - 0.31 38.5		0.59D						56.5I	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 (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 (Mn2+) 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
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