

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0202 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	11/07/95	Elevation:	310 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6257195 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	614035 Datum: AGD84	Drainage:	Poorly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Landform

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Alluvial plain
Morph. Type:	Flat	Relief:	5 metres
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition Cracking, Hardsetting

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Sodic Eutrophic Grey Dermosol		Principal Profile Form:	Uf6.13
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 No surface coarse fragments; No surface coarse fragments

Profile Morphology

Ap	0 - 0.03 m	Very dark grey (2.5Y3/1-Moist); , 0-0% ; Light clay; Weak grade of structure, 10-20 mm, Subangular
		blocky; Rough-ped fabric; Moderately moist; Firm consistence; Field pH 6 (Raupach);
Abrupt, Wavy		change to -
B1	0.03 - 0.2 m	Light brownish grey (2.5Y6/2-Moist); Mechanical, 2.5Y41, 10-20% , 5-15mm, Distinct;
Sandy light clay;		Moderate grade of structure; Rough-ped fabric; Dry; Very firm consistence; Field pH 6
(Raupach); Clear		change to -
B21	0.2 - 0.5 m	Light brownish grey (2.5Y6/2-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-
		ped fabric; Dry; Very firm consistence; Field pH 8.5 (Raupach); Gradual change to -
B22	0.5 - 0.7 m	Light brownish grey (2.5Y6/2-Moist); Mottles, 10YR58, 2-10% , 5-15mm, Distinct; Sandy medium clay;
		Moderate grade of structure; Rough-ped fabric; Dry; Very firm consistence; Field pH 9
(Raupach);		

Morphological Notes

Observation Notes

Site Notes

Site in paddock drained by large W drains - fenced off and vegetated - "hardsetting grey clay".

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable	Cations	Na	Exchangeable	CEC	ECEC	ESP
m		dS/m		Mg	K	Cmol (+)/kg	Acidity			%

0 - 0.03	5.8B	22B	6.89A	5.59	0.82	0.73					14.03D
	6.5H										
0 - 0.03	5.8B	22B	6.89A	5.59	0.82	0.73					14.03D
	6.5H										
0 - 0.03	5.8B	22B	6.89A	5.59	0.82	0.73					14.03D
	6.5H										
0 - 0.1	5.6B										
0.03 - 0.2	6.3B	11B	5.9A	5.24	0.18	1.14					12.46D
	7.4H										
0.03 - 0.2	6.3B	11B	5.9A	5.24	0.18	1.14					12.46D
	7.4H										
0.03 - 0.2	6.3B	11B	5.9A	5.24	0.18	1.14					12.46D
	7.4H										
0.1 - 0.2	6.4B										
0.4 - 0.5	7.5B										

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m ³			%	
0 - 0.03		3.42D							61.5I		7.5
31											
0 - 0.03		3.42D							61.5I		7.5
31											
0 - 0.03		3.42D							61.5I		7.5
31											
0 - 0.1											
0.03 - 0.2		0.61D							58I		6
36											
0.03 - 0.2		0.61D							58I		6
36											
0.03 - 0.2		0.61D							58I		6
36											
0.1 - 0.2											
0.4 - 0.5											

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
15A1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_MG	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_NA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, 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
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

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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