

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0411 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	30/08/95	Elevation:	270 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6242550 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	636450 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:	Upper-slope	Relief:	5 metres
Elem. Type:	Hillcrest	Slope Category:	No Data
Slope:	1 %	Aspect:	90 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Hypocalcic Mesonatric Yellow Sodosol	Principal Profile Form:	Dy2.12
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, angular, Quartz; 2-10%, , subangular, Quartz

Profile Morphology

Ap	0 - 0.08 m	Dark grey (10YR4/1-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Dry; Field pH 6.5
		(Raupach); Abrupt, Wavy change to -
B21	0.08 - 0.35 m	Light yellowish brown (2.5Y6/4-Moist); , 0-0% ; Sandy light medium clay; Weak grade of structure;
		Rough-ped fabric; Dry; Field pH 7.5 (Raupach); Clear change to -
B22	0.35 - 0.55 m	Light brownish grey (2.5Y6/3-Moist); Mottles, 2.5YR46, 2-10% , 15-30mm, Distinct; Sandy medium clay;
		Moderate grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence;
		Soil matrix is
		Slightly calcareous; Field pH 8.5 (Raupach); Abrupt change to -
B3	0.55 - 0.7 m	Yellowish red (5YR4/6-Moist); Mottles, 10YR58, 0-2% , 5-15mm, Distinct; Coarse sandy light medium
		clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence; Field pH
		7 (Raupach);

Morphological Notes

Observation Notes

Site Notes

Some silcrete on surface at this site - "hardsetting grey clay". Field texture was used to classify profile.

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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	Acidity				%
					Cmol (+)/kg				

0 - 0.08	5.7B 6.6H	16B	5.29A	2.29	0.51	0.91	9D
0 - 0.08	5.7B 6.6H	16B	5.29A	2.29	0.51	0.91	9D
0 - 0.08	5.7B 6.6H	16B	5.29A	2.29	0.51	0.91	9D
0.08 - 0.28	6.8B 7.9H	21B	2.6A	3.96	0.33	1.5	8.39D
0.08 - 0.28	6.8B 7.9H	21B	2.6A	3.96	0.33	1.5	8.39D
0.08 - 0.28	6.8B 7.9H	21B	2.6A	3.96	0.33	1.5	8.39D

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size	Analysis
m	%	%	mg/kg	%	%	%	Mg/m ³		CS FS	Silt
0 - 0.08 12		1.74D							88.5I	7.5
0 - 0.08 12		1.74D							88.5I	7.5
0 - 0.08 12		1.74D							88.5I	7.5
0.08 - 0.28 23.5		0.2D							71I	5.5
0.08 - 0.28 23.5		0.2D							71I	5.5
0.08 - 0.28 23.5		0.2D							71I	5.5

Laboratory Analyses Completed for this profile

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 (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_MG for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15J_BASES	Sum of Bases
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using 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
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