

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0265 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 24/07/95	Elevation: 345 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6285600 AMG zone: 50	Runoff: No Data
Easting/Lat.: 620220 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: Mid-slope	Relief: 10 metres
Elem. Type: Hillslope	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
Mesotrophic Mottled-Mesonatric Yellow Sodosol	Principal Profile Form: Dy3.42
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, Quartz; 10-20%, , subangular, Silcrete

Profile Morphology

A1	0 - 0.12 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; Field
		pH 6 (Raupach); Sharp, Smooth change to -
A2e	0.12 - 0.25 m	Light grey (10YR7/2-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure; Moist; Field
		pH 6 (Raupach); Abrupt, Wavy change to -
B2	0.25 - 0.55 m	Light yellowish brown (10YR6/4-Moist); Mottles, 2.5YR46, 20-50% , 15-30mm, Prominent; Sandy medium
		clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Field pH 6.5
		(Raupach); Clear change to -
B31	0.55 - 0.8 m	Brownish yellow (10YR6/6-Moist); Mottles, 5YR46, 20-50% , 5-15mm, Distinct; Coarse sandy light
		medium clay; Weak grade of structure; Sandy (grains prominent) fabric; Moderately moist; Firm
		consistence; Field pH 6 (Raupach); Clear change to -
B32	0.8 - 0.9 m	Strong brown (7.5YR5/6-Moist); Mottles, 10YR72, 10-20% , 15-30mm, Distinct; , 2.5YR46, 2-10% , 5-
		15mm, Distinct; Coarse sandy light clay; Weak grade of structure; Sandy (grains prominent) fabric;
		Moderately moist; Firm consistence; Field pH 6.5 (Raupach);

Morphological Notes

Observation Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.1	4.5B								
0.15 - 0.25	4.6B								
0.25 - 0.45	4.9B	8B	0.74H	2.46	0.1	0.66	0.05J	3.96D	
	6H								
0.25 - 0.45	4.9B	8B	0.74H	2.46	0.1	0.66	0.05J	3.96D	
	6H								
0.4 - 0.5	5B								

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								
0.15 - 0.25								
0.25 - 0.45		0.27D						58.5I 3
								38.5
0.25 - 0.45		0.27D						58.5I 3
								38.5
0.4 - 0.5								

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_CM	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