

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0363 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 08/08/95
Map Ref.:
Northing/Long.: 6238460 AMG zone: 50
Easting/Lat.: 598330 Datum: AGD84
Locality:
Elevation: 240 metres
Rainfall: No Data
Runoff: No Data
Drainage: Moderately well drained

Geology

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

Landform

Rel/Slope Class: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type: Upper-slope
Elem. Type: Summit surface
Slope: 1 %
Relief: 10 metres
Slope Category: No Data
Aspect: 180 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: Calcaric Subnatric Brown Sodosol
ASC Confidence: All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy2.13
Great Soil Group: N/A

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

A1	0 - 0.15 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Field pH 6
		(Raupach); Abrupt, Wavy change to -
B21	0.15 - 0.2 m	Brown (10YR5/3-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-ped fabric;
		Dry; Very firm consistence; Soil matrix is Moderately calcareous; Field pH 8.5 (Raupach);
B22k	0.2 - 0.5 m	Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-
		ped fabric; Dry; Very firm consistence; 10-20%, fine gravelly, 2-6mm, Calcrete, coarse fragments;
		Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach);

Morphological Notes

Observation Notes

Site Notes

"Hardsetting grey clay".

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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				Na Cmol (+)/kg				%
0 - 0.15	5.4B 6.3H	13B	4.38H	1.25	0.62	0.64	0.03J		6.89D	
0 - 0.15	5.4B 6.3H	13B	4.38H	1.25	0.62	0.64	0.03J		6.89D	
0 - 0.15	5.4B	13B	4.38H	1.25	0.62	0.64	0.03J		6.89D	

0.15 - 0.35	6.3H 8.3B 9.2H	24B	4.31E	4.6	0.6	1.31		10B	10.82D	13.10
0.15 - 0.35	8.3B 9.2H	24B	4.31E	4.6	0.6	1.31		10B	10.82D	13.10
0.15 - 0.35	8.3B 9.2H	24B	4.31E	4.6	0.6	1.31		10B	10.82D	13.10

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 - 0.15 7		1.37D							88I		5
0 - 0.15 7		1.37D							88I		5
0 - 0.15 7		1.37D							88I		5
0.15 - 0.35 28	2C	0.29D							68.5I		3.5
0.15 - 0.35 28	2C	0.29D							68.5I		3.5
0.15 - 0.35 28	2C	0.29D							68.5I		3.5

Laboratory Analyses Completed for this profile

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
15C1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	
15C1_CEC	soluble salts
15C1_K	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG	
soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA	
soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (Mn ²⁺) 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
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
19B_NR	Calcium Carbonate (CaCO ₃) - Not recorded
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