

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0345 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 03/08/95
Map Ref.:
Northing/Long.: 6247780 AMG zone: 50
Easting/Lat.: 592565 Datum: AGD84
Locality:
Elevation: 275 metres
Rainfall: No Data
Runoff: No Data
Drainage: Poorly 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: Lower-slope
Elem. Type: Hillslope
Slope: 0 %
Relief: 10 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:
 Hypocalcic Mesonatric 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 - 0.1 m Dark greyish brown (10YR4/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Moist; Field pH 6 (Raupach); Abrupt, Smooth change to -
 B21 0.1 - 0.4 m Brown (10YR5/3-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Soil matrix is Slightly calcareous; Field pH 9 (Raupach); Gradual change to -
 B22k 0.4 - 0.6 m Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Sandy light medium clay; Weak grade of structure; Sandy (grains prominent) fabric; Moderately moist; 2-10%, medium gravelly, 6-20mm, Calcrete, coarse fragments; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);

Morphological Notes

B22k Slight dispersion.

Observation Notes

Site Notes

Site shows up darker on colour photo as has not been cropped for many years and is dominated by Guildford grass
 - "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 - 0.1	5.2B 6.3H	11B	2.72H	1.61 0.33	0.46	0.03J		5.12D	
0 - 0.1	5.2B	11B	2.72H	1.61 0.33	0.46	0.03J		5.12D	

0 - 0.1	6.3H 5.2B	11B	2.72H	1.61	0.33	0.46	0.03J	5.12D		
0.1 - 0.3	6.3H 8.3B	34B	3.24E	7.17	0.53	3.42		17B	14.36D	20.12
0.1 - 0.3	9.3H 8.3B	34B	3.24E	7.17	0.53	3.42		17B	14.36D	20.12
0.1 - 0.3	9.3H 8.3B	34B	3.24E	7.17	0.53	3.42		17B	14.36D	20.12

Depth	CaCO ₃	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	% Clay	mg/kg	%	%	%	Mg/m ³			%	
0 - 0.1 6		1.62D						89I			5
0 - 0.1 6		1.62D						89I			5
0 - 0.1 6		1.62D						89I			5
0.1 - 0.3 28	<2C	0.18D						66I			6
0.1 - 0.3 28	<2C	0.18D						66I			6
0.1 - 0.3 28	<2C	0.18D						66I			6

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	
	soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
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