

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0464 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 18/09/95
Map Ref.:
Northing/Long.: 6281395 AMG zone: 50
Easting/Lat.: 633300 Datum: AGD84
Locality:
Elevation: 290 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: Mid-slope
Elem. Type: Hillslope
Slope: 1 %
Relief: 10 metres
Slope Category: No Data
Aspect: 0 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: Hypocalcic Hypernatric Grey Sodosol
ASC Confidence: All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy2.11
Great Soil Group: N/A

Site Disturbance Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation

Surface Coarse Fragments 10-20%, medium gravelly, 6-20mm, subangular, Quartz; 0-2%, , subrounded, Calcrete

Profile Morphology

Ap 0 - 0.07 m Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Dry;
 Field pH 7.5 (Raupach); Abrupt, Wavy change to -
 B21 0.07 - 0.3 m Greyish brown (10YR5/2-Moist); , 0-0% ; Medium clay; Moderate grade of structure;
 Rough-ped fabric;
 Dry; Soil matrix is Slightly calcareous; Field pH 9 (Raupach); Clear change to -
 B22 0.3 - 0.5 m Brown (10YR5/3-Moist); , 0-0% ; Medium heavy clay; Strong grade of structure; Smooth-ped fabric; Dry;
 Field pH 8.5 (Raupach); Clear change to -
 B3 0.5 - 0.6 m Brown (10YR5/3-Moist); Mottles, 10YR58, 2-10% , 5-15mm, Distinct; , 10YR81, 2-10% , 15-30mm,
 Distinct; Medium clay; Strong grade of structure; Smooth-ped fabric; Dry; Field pH 6 (Raupach);

Morphological Notes

B22 Kaolinitic clay.
 B3 Kaolinitic clay.

Observation Notes

Site Notes

"Hardsetting grey clay".

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Laboratory Test Results:

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

0 - 0.07	5.7B 6.8H	14B	3.1A	3.73	0.7	0.8			8.33D
0 - 0.07	5.7B 6.8H	14B	3.1A	3.73	0.7	0.8			8.33D
0 - 0.07	5.7B 6.8H	14B	3.1A	3.73	0.7	0.8			8.33D
0.07 - 0.27	7.2B 8.4H	28B	3.15E	5.49	0.76	3.23		12B	12.63D 26.92
0.07 - 0.27	7.2B 8.4H	28B	3.15E	5.49	0.76	3.23		12B	12.63D 26.92
0.07 - 0.27	7.2B 8.4H	28B	3.15E	5.49	0.76	3.23		12B	12.63D 26.92

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m ³	GV CS FS Silt
0 - 0.07 14		1.74D						78.5I 7.5
0 - 0.07 14		1.74D						78.5I 7.5
0 - 0.07 14		1.74D						78.5I 7.5
0.07 - 0.27 49	<2C	0.4D						43.5I 7.5
0.07 - 0.27 49	<2C	0.4D						43.5I 7.5
0.07 - 0.27 49	<2C	0.4D						43.5I 7.5

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
15A1_CEC	salts
15A1_K for soluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts
15C1_CA pretreatment for	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
15C1_CEC	salts
15C1_K soluble salts	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5,
15C1_MG soluble salts	soluble salts
15C1_NA soluble salts	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15J_BASES	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15L1_a Sum of Cations	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15N1_a	Sum of Bases
15N1_b	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
19B_NR	and measured clay
3_NR	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
	Calcium Carbonate (CaCO ₃) - Not recorded
	Electrical conductivity or soluble salts - Not recorded

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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