

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0233 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 13/07/95
Map Ref.:
Northing/Long.: 6250920 AMG zone: 50
Easting/Lat.: 614050 Datum: AGD84
Locality:
Elevation: 320 metres
Rainfall: No Data
Runoff: No Data
Drainage: Poorly drained

Geology

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

Landform

Rel/Slope Class: Level plain <9m <1%
Morph. Type: Flat
Elem. Type: Plain
Slope: 1 %
Pattern Type: Alluvial plain
Relief: 5 metres
Slope Category: No Data
Aspect: 270 degrees

Surface Soil Condition Poached, Hardsetting

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

Soil Classification

Australian Soil Classification:
 Epibasic Pedal Calcic Calcarosol
ASC Confidence:
 All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Uf6.13
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

Ap	0 - 0.08 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Sandy light clay; Weak grade of structure, 20-50 mm,
		Subangular blocky; Moist; Field pH 7.5 (Raupach); Sharp, Smooth change to -
B21	0.08 - 0.4 m	Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Sandy medium clay; Strong grade of structure; Rough-ped
		fabric; Moderately moist; Soil matrix is Slightly calcareous; Field pH 9 (Raupach); Clear change to -
B22k	0.4 - 0.6 m	Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-
		ped fabric; Moderately moist; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach);

Morphological Notes

Observation Notes

Site Notes

"Hardsetting grey clay" Field texture to classify as a grey non-cracking clay. Also a Calcarosol.

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.08	6.4B 7.4H	9B	6.46A	5.97	0.6	0.73			13.76D	
0 - 0.08	6.4B 7.4H	9B	6.46A	5.97	0.6	0.73			13.76D	
0 - 0.08	6.4B 7.4H	9B	6.46A	5.97	0.6	0.73			13.76D	

0.08 - 0.28	7.6B 8.8H	13B	4.77E	6.86	0.3	2.04		16B	13.97D	12.75
0.08 - 0.28	7.6B 8.8H	13B	4.77E	6.86	0.3	2.04		16B	13.97D	12.75
0.08 - 0.28	7.6B 8.8H	13B	4.77E	6.86	0.3	2.04		16B	13.97D	12.75

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 - 0.08 27		1.53D							67I		6
0 - 0.08 27		1.53D							67I		6
0 - 0.08 27		1.53D							67I		6
0.08 - 0.28 40.5	<2C	0.19D							55.5I		4
0.08 - 0.28 40.5	<2C	0.19D							55.5I		4
0.08 - 0.28 40.5	<2C	0.19D							55.5I		4

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	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
15C1_CA pretreatment for	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5, soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K 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
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
19B_NR	Calcium Carbonate (CaCO ₃) - Not recorded
3_NR	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