

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0189 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 05/07/95
Map Ref.:
Northing/Long.: 6258500 AMG zone: 50
Easting/Lat.: 595890 Datum: AGD84
Locality:
Elevation: 305 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: Level plain <9m <1%
Morph. Type: Flat
Elem. Type: Plain
Slope: 0 %
Pattern Type: Alluvial plain
Relief: 5 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 Grey Sodosol
ASC Confidence: All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy3.13
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% ; Clayey sand; Massive grade of structure; Moderately moist; Field pH 6 (Raupach); Abrupt, Wavy change to -
B21	0.1 - 0.4 m	Pale brown (10YR6/3-Moist); Mottles, 5YR56, 20-50% , 15-30mm, Faint; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Firm consistence; Soil matrix is Slightly calcareous; Field pH 8 (Raupach); Clear change to -
B22k	0.4 - 0.7 m	Pale yellow (2.5Y7/3-Moist); Mottles, 10YR56, 2-10% , 0-5mm, Distinct; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Very firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach); Diffuse change to -
B23	0.7 - 0.9 m	Light brownish grey (2.5Y6/3-Moist); Mottles, 7.5YR56, 10-20% , 0-5mm, Distinct; Sandy light medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Firm consistence; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach);

Morphological Notes

Observation Notes

Site Notes

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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	Na	Acidity			%
					Cmol (+)/kg				

0 - 0.1	5.1B 6.4H 4.8B	11B	1.89H	0.88	0.07	0.54	0.06J	3.38D
0 - 0.1	5.1B 6.4H 4.8B	11B	1.89H	0.88	0.07	0.54	0.06J	3.38D
0 - 0.1	5.1B 6.4H 4.8B	11B	1.89H	0.88	0.07	0.54	0.06J	3.38D
0 - 0.1	5.1B 6.4H 4.8B	11B	1.89H	0.88	0.07	0.54	0.06J	3.38D
0.1 - 0.3	6B 7.2H	18B	2.23A	5	0.04	2.12		9.39D
0.1 - 0.3	6B 7.2H	18B	2.23A	5	0.04	2.12		9.39D
0.1 - 0.3	6B 7.2H	18B	2.23A	5	0.04	2.12		9.39D
0.15 - 0.25	6.1B							
0.4 - 0.5	8B							

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 - 0.1 6		1.29D							90I		4
0 - 0.1 6		1.29D							90I		4
0 - 0.1 6		1.29D							90I		4
0 - 0.1 6		1.29D							90I		4
0.1 - 0.3 26.5		0.43D							69I		4.5
0.1 - 0.3 26.5		0.43D							69I		4.5
0.1 - 0.3 26.5		0.43D							69I		4.5
0.15 - 0.25											
0.4 - 0.5											

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
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA salts	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

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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
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
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